End Semester Examination, May 2014
BBA (GEN) / BBA (BANKING) – First Semester
BUSINESS ORGANISATION (bba-1001)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following:
a) Represent diagrammatically business as a system. 2
b) Give any two features of business. 2
c) State any two functions of an entrepreneur. 2
d) State any two demerits of Joint Hindu family business. 2
e) State any two merits of sole proprietorship form of business organization. 2
f) Name various types of a co-operative society. 2
g) Give any two functions of stock exchange. 2
h) CII stands for [Blank]. 1

UNIT-I

Q.2 What is business? Discuss the main objectives of business. 15

Q.3 a) Discuss the scope of business. 10
   b) Differentiate between business, profession and employment. 5

UNIT-II

Q.4 a) Differentiate between Private Ltd. and Public Ltd. Company. 10
   b) Discuss the features of sole proprietorship type of business organization. 5

Q.5 a) What do you understand by MNC? Discuss their benefits and limitations. 10
   b) Discuss the features of partnership type of business organization. 5

UNIT-III

Q.6 What factors affect the choice of a suitable form of an organization? Discuss. 15

Q.7 a) Discuss the contents of business plan. 7
   b) Discuss the components of feasibility report. 8

UNIT-IV

Q.8 What do you mean by business combinations? What are the objectives and causes of business combinations? 15

Q.9 Write short notes on:
a) Role of FICCI. 7
b) Objectives of SEBI. 8
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – First Semester
BUSINESS MATHEMATICS (bba-1002)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) Express the relationship $A \cup B$ between two sets $A$ and $B$ by Venn diagram.
b) If $A$ and $B$ are two sets, then which of the following is called De-Morgan’s law:
   i) $A \cup B = B \cup A$
   ii) $A \cap (A \cap B) = A$
   iii) $(A \cup B)^c = A^c \cap B^c$, $(A \cap B)^c = A^c \cup B^c$
   iv) $A \setminus B = A \cap B^c$
c) Show that $\log_a mn = \log_a m + \log_a n$
d) Find the sum of 16 terms of the series:
   5, 9, 13, 17,........
e) Evaluate $^{11}C_3$
f) Let $P$ be the principal and $r$ % the rate of compound interest per year. If the compound interest is reckoned $\lambda$ times per year, then write the formula for the amount at the end of $n$ years.
g) What is the trace of the matrix?
   $\begin{bmatrix}
   1 & 3 & 5 \\
   2 & -7 & 2 \\
   3 & 2 & 15
   \end{bmatrix}$
h) Differentiate between a matrix and its determinant.
i) Show that diagonal elements of an Hermitian matrix are all real.
j) Differentiate \( \left( \frac{x-1}{x} \right) \left( x^2 + \frac{1}{x^2} \right) \)

UNIT-I

Q.2  
a) Show that $A \setminus (B \cap C) = (A \setminus B) \cup (A \setminus C)$

b) Let $A$ and $B$ be two sets such that $A \times B$ consists of 6 elements. If three elements of $A \times B$ are $(3, 2)$, $(7, 5)$ and $(8, 5)$, determine $A \times B$ and $B \times A$.

Q.3  
a) Define symmetric difference of two sets and show that:
\[ A \Delta B = (A \setminus B) \cup (B \setminus A) \]

b) In a survey of 80 people, it was observed that 30 people read Hindustan Times, 25 people read Times of India, 28 read The Tribune, 15 read both Hindustan Times and The Tribune, 18 read both Times of India and The Tribune, 20 read both Hindustan Times and Times of India and 5 read all the three newspapers. Find:
i) The number of people who read at least one of the three newspapers
ii) The number of people who read no newspaper at all.

P. T. O.
UNIT-II

Q.4  a) Solve the equation: \(2^{2x+1} \times 3^{2x+2} = 7^{4x}\)  
If \(\log 2 = 0.3010, \log 3 = 0.4771, \log 7 = 0.8451\).  

b) If \(a^2 + b^2 = 7ab\), show that  
   i) \(2\log (a-b) = \log 5 + \log a + \log b\)  
   ii) \(\log_3 (a+b) = \frac{1}{2} (\log a + \log b)\)

Q.5  a) If the A.M between \(a\) and \(b\) is equal to \(n\) times their G.M, determine \(\frac{a}{b}\).

b) Evaluate: \(0.34545\).

UNIT-III

Q.6  a) Prove that: \(\left(\begin{array}{c} n+1 \\ r \end{array}\right) = \left(\begin{array}{c} n \\ r \end{array}\right) + \left(\begin{array}{c} n \\ r-1 \end{array}\right)\)

b) A woman hosting a birthday party wants to purchase 16 cans of soft drinks for her invited guests. The shop she visited for the purpose has four different types of soft drinks. Determine:
   i) How many different selections of 16 cans of soft drinks can be made?
   ii) If coca-cola is one of the soft drinks available and she purchases at least 5 cans of coca-cola, how many different selections can she make?

Q.7  a) A certain sum of money is put out at compound interest for 4 years at 5% per year. The interest for third year is greater than that of second year by Rs 262.50. Determine the total interest for the four years and also the original sum invested.

b) In how many years a sum will amount to \(2\frac{1}{2}\) times itself at 9% per annum compound interest?

UNIT-IV

Q.8  a) If \(A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}\), find adj \(A\) and \(A^{-1}\).

b) Solve the following non-homogeneous system of linear equation by matrix inversion method:
   \[\begin{align*}
   x + 2y - 3z &= -4 \\
   2x + 3y + 2z &= 2 \\
   3x - 3y - 4z &= 11
   \end{align*}\]

Q.9  a) Differentiate \(\sin y = x\sin (a+y)\) with respect to \(x\).

b) Find from first principle the derivative of \(y = \frac{x^2+1}{x}\) with respect to \(x\).
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – First Semester
FINANCIAL ACCOUNTING (bba-1003)

Time: 3 hrs  
Max Marks: 75

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit. 
Q.1 is compulsory. All questions carry equal marks.

Q.1  a) The following balances of ledgers will appear on which side of the trial balance
i) Capital  
ii) Drawings  
iii) Discount allowed  
iv) Purchase return  
v) Bank overdraft  
1x5

b) Fill in the blanks:
   i) ________ is prepared at a point of time.
   ii) In income and expenditure account only ________ nature of transactions are recorded.
   iii) Balance sheet is prepared to know the ________ of the business.
   iv) In ________ method of depreciation, the book value of an asset can be zero.
   v) Trial balance is prepared to know the ________ of the ledgers.  
1x5

c) Answer in one or two sentences:
   i) Depreciation  
   ii) Journal  
   iii) Subscription  
   iv) Outstanding expenses  
   v) Personal rule  
1x5

UNIT-I

Q.2  a) Money measurement concept  
b) Convention of consistency  
c) Dual aspect concept.  
5x3

Q.3  a) Distinguish between cash basis and accrual basis of accounting.  
8
b) Discuss the functions and types of accounting.  
7

UNIT-II

Q.4  The following balances appeared in the book of V stores on 1st January 2012:
Assets: Cash Rs. 15,000/-, Bank Rs. 5,000/-, Stock Rs. 40,000/-, Debtors Rs. 24,000/-, Furniture Rs. 3600/-.  
Liabilities: Bank loan Rs. 10,000/-, Creditors Rs. 12,500/-.

Following transactions took place during January 2012:
Jan 2: Bought goods from 'K' for Rs. 20,000/- at a trade Discount 10% and cash discount 2%. Paid 60% amount immediately.
Jan 5: Sold goods to 'X' for Rs. 9,000/-
Jan 8: Cash deposited into bank Rs.10,000/-
Jan 10: Cash received from 'X' Rs. 8,900/- for full settlement.
Jan 15: Received a cheque from 'Z' Rs. 2,000/-
Jan 20: Cheque received from 'Z' deposited into bank.
Jan 25: Paid rent by cheque Rs. 1,500/-
Jan 28: Paid life insurance premium Rs. 2,000/-
Jan 30: Salary due to clerks Rs. 5,000/-

Pass necessary journal entries and prepared cash account in the book of 'V stores'. 15

Q.5  Define error. Explain the various types of error with an example. How are they rectified? 15

P. T. O.
Q.6 On 1st October, 2001, the Delhi Transport Company purchased a truck for Rs. 4,00,000/-. On 1st April, 2003, this truck had an accident and was completely destroyed and Rs. 3,00,000 were received from the insurance company in full settlement. On the same data another truck was purchased by the company for Rs. 5,00,000/-. The company writes off 20% depreciation p.a. on W.D.V. method. Give the truck account and depreciation account from 2001 to 2003, when books are closed on 31st December every year. 15

Q.7 a) Prepare a Bank reconciliation statement from the following information:
   i) Balance as per cash book Rs.45,000/-.  5
   ii) Rs. 15,000/- cheques issued but Rs. 5,000/- cheque yet not presented for payment.
   iii) Cheque of Rs. 8,000/- deposited into bank but it is yet not cleared.
   iv) Bank charges Rs.150.
   v) Interest credited by bank Rs.450/-.  10
   vi) A customer directly deposited Rs. 7,000/- in the bank.
b) Define bank reconciliation statement. Why is it prepared? 5

UNIT-IV

Q.8 a) From the following information show the treatment of subscription:
   Receipt and Payment Account
   for the year ending 31st Dec 2011

<table>
<thead>
<tr>
<th>Receipt</th>
<th>Amount</th>
<th>Payment</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscription</td>
<td>18,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(including Rs.1,000/- for 2010 and Rs.1,500/- for 2012)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Information:

<table>
<thead>
<tr>
<th></th>
<th>01/01/2011 (Rs.)</th>
<th>31/12/2011 (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Subscription due</td>
<td>1,400</td>
<td>2,400</td>
</tr>
</tbody>
</table>
| ii) Subscription received in advance | -                | 1,500            | 10

b) Explain the steps needed to prepare an income and expenditure account. 5

Q.9 From the following balances for the year ending 31st December, 2004. Prepare final account of M/s Quality Traders:

<table>
<thead>
<tr>
<th>(Rs.)</th>
<th>(Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital</td>
<td>80,000</td>
</tr>
<tr>
<td>Purchases</td>
<td>82,000</td>
</tr>
<tr>
<td>Sales</td>
<td>1,10,000</td>
</tr>
<tr>
<td>Purchase Returns</td>
<td>1,000</td>
</tr>
<tr>
<td>Buildings</td>
<td>45,000</td>
</tr>
<tr>
<td>Opening Stock</td>
<td>15,000</td>
</tr>
<tr>
<td>Debtors</td>
<td>20,100</td>
</tr>
<tr>
<td>Creditors</td>
<td>28,000</td>
</tr>
<tr>
<td>Furniture</td>
<td>7,000</td>
</tr>
<tr>
<td>Carriage inward</td>
<td>200</td>
</tr>
<tr>
<td>Wages</td>
<td>1,800</td>
</tr>
<tr>
<td>Rent</td>
<td>5,100</td>
</tr>
<tr>
<td>Commission (Cr.)</td>
<td>1,500</td>
</tr>
<tr>
<td>Insurance</td>
<td>600</td>
</tr>
<tr>
<td>Salaries</td>
<td>12,500</td>
</tr>
<tr>
<td>Bad debts</td>
<td>200</td>
</tr>
<tr>
<td>Provision for bad debts</td>
<td>500</td>
</tr>
<tr>
<td>Cash in hand</td>
<td>5,000</td>
</tr>
<tr>
<td>Bank balance</td>
<td>25,000</td>
</tr>
<tr>
<td>Sale tax paid</td>
<td>5,000</td>
</tr>
<tr>
<td>Bills payable</td>
<td>3,500</td>
</tr>
</tbody>
</table>

Additional Information:

i) closing stock Rs. 20,000/-
ii) Depreciation on Buildings @5% and on furniture @10%
iii) Outstanding salaries Rs. 1,000/-
iv) Further Bad debts Rs. 1,000
v) Make provision for bad debts @3% and provision for discount on debtors @ 2% 15
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – First Semester
COMPUTER FUNDAMENTALS (bba-1004)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) ________ is an example of video input device.
   b) The sharpness and clarity of print of the printer are determined by the ________ of printer.
   c) The hexadecimal number system is in base ________.
   d) For binary subtraction we use ________ method.
   e) COBOL and C are ________ generation languages.
   f) ________ is an example of windows operating system.
   g) GUI is known as ________.
   h) Commonly used binary coding schemes are ________ and ________.
   i) 1 Gigabyte (GB) = ________ MB = ________ kB.
   j) ________ is the supercomputer assembled in India.

UNIT-I

Q.2  a) What is a digital computer? How is it different from analog computers? Explain the anatomy of digital computer.

Q.3  Discuss and differentiate between hardware, software, firmware, middleware, freeware.

UNIT-II

Q.4  a) Convert the following:
   i) \((101010.011)_2 = (?)_a = (?)_h = (?)_o \)
   ii) \((?)_2 = (?)_h = (250.625)_10 \\
   b) Convert the octal number 577.46 to the following:
   i) Binary       ii) Decimal

Q.5  a) What are character codes? Differentiate between ASCII and EBCDIC codes.
   b) Define the terms: Bit, Byte, nibble, word.

UNIT-III

Q.6  Distinguish between the following:
   a) RAM and ROM
   b) Static and Dynamic RAM

Q.7  a) What are the functions performed by an operating system. Discuss.
   b) What is the difference between primary and secondary memory?

UNIT-IV

Q.8  Discuss the application of computer in education. How do computers help in the process of pedagogy?

Q.9  List down 10 applications of computers which are used in offices.
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – First Semester
BUSINESS COMMUNICATIONS (bba-1005)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Explain the following in one or two sentences:
   i) Grapevine
   ii) Kinesics
   iii) Proxemics
   iv) Resume
   v) Empathetic listening
   vi) Notice
   vii) Brochure
   viii) Public Band
   ix) Passive listening
   x) Horizontal communication

b) Fill in the blanks:
   i) _______ and _______ are the fastest types of reading.
   ii) Messages are circulated in an organization through a _______.
   iii) _______ and _______ are important factors of voice modulation.

UNIT-I
Q.2 "Communication is the most essential skill required by all business managers in order to be successful". Give your views on the above statement highlighting the major factors which make communication ineffective.

Q.3 As a successful businessman, discuss the various roles that communications skills play in your functioning. How do these skills help to make your work smooth?

UNIT-II
Q.4 "Good body language is very important in order to have an attractive personality." Discuss each aspect of body language with appropriate examples to prove the above point.

Q.5 Write a speech to introduce your new general manager to the rest of the staff. Assure him about your guidance and support whenever he needs it. You are the CEO of the company.

UNIT-III
Q.6 Write a claim letter to the manager of the showroom from where you purchased a dinner set two months back. The dinner set had a few pieces broken and even the packing was not good.

Q.7 Write short notes on the following:
   a) Sales letter   b) Agenda   c) Resume.

UNIT-IV
Q.8 Design a brochure to advertise your services as a chain of home delivery pizzas at reasonable prices. Make it very attractive so that people stop eating out.

Q.9 Discuss the different types of reports used in organizations. Discuss in detail all the steps to be kept in mind while preparing a report.
End Semester Examination, May 2014
BBA (GEN)/ BBA (Banking) – First Semester
MICROECONOMICS FOR BUSINESS DECISIONS (bba-1006)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt any **FIVE** questions in all; taking at least **ONE** question from each Unit. 
**Q.1 is compulsory.** All questions carry equal marks.

**Q.1**
Answer in one or two sentence:
- a) Define supply.
- b) Explain law of diminishing returns.
- c) What are Giffen goods?
- d) Write any two assumption of law of supply.
- e) Explain income elasticity of demand.

**Fill in the blanks:**
- f) When output is zero then TC is equal to ________?
- g) Average cost is the ________ cost of output.
- h) AR is known as ________ of a good.
- i) Indifference curve is ________ to the point of origin.
- j) Economics is the ________.

2x5 1x5

**UNIT-I**

**Q.2**
- a) Explain the situations in which demand curve slopes upwards.
- b) Discuss briefly the scope and limitation of micro economics.

8 7

**Q.3**
What is elasticity of demand? How is it measured? Explain the principles affecting elasticity of demand.

15

**UNIT-II**

**Q.4**
Define the term: utility. Explain consumer equilibrium with help of utility analysis in the case of one commodity with single use.

15

**Q.5**
- a) Explain law of equimarginal utility.
- b) Discuss the main proper ties of an isoquant curve

7 8

**UNIT-III**

**Q.6**
Explain the relationship between AC and MC with the help of schedule and diagram.

15

**Q.7**
- a) Explain the relationship between AR and MR.
- b) Write a note on diminishing returns to a factor.

7 8

**UNIT-IV**

**Q.8**
Define monopolistic market. Why does it tend to be a multi-priced market? How does a firm determine its output and prices under it?

15

**Q.9**
Write short notes on:
- a) Marginal productivity theory of distribution
- b) Discriminating monopoly

7½x2
End Semester Examination, May 2014
BBA (GEN) / BBA (BANKING) – Second Semester
PRINCIPLES OF MANAGEMENT (bba-2001)

Time: 3 hrs  Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 State True/False:
   a) Every manager is not responsible for co-ordination of activities.
   b) Managers are needed only in business firms.
   c) A principle means a fundamental statement of basic truths.
   d) Schedules are the examples of a standing plan.
   e) Communication is a part of the directing function of management.

   Fill in the blanks:
   f) CSR is the integration of ______ and ______ obligations of a company.
   g) Performance appraisal process is measuring the ______ by the employees during the specified period.
   h) ______ is the technique of estimating the relevant future events.
   i) Motivation may be ______ or ______.
   j) ______ level of management includes foremen and supervisor.
   k) The contribution of management in business consists of ______ and ______.
   l) Decision-making process ______ and ______ the problem.
   m) These are ______ levels of management.
   n) The problem-solving process begins with ______ of the difficulty.
   o) The terms management and ______ are interchangeable. 1x15

   UNIT-I

Q.2 What are essential characteristics of management? Is management an universal process? Discuss. 15

Q.3 Write short notes on:
   a) Role of a manager
   b) Systems approach management. 7 8

   UNIT-II

Q.4 a) What is planning? Why should planning be regarded as an essential function of management? 8
   b) What do you meant by ‘management by objectives’? What are the different steps involved in it? 7

Q.5 What do you understand by ‘decision-making’? Discuss the steps necessary in management decision-making. 15

   UNIT-III

Q.6 Explain the various steps in the process of organizing and also discuss the significance of organizing. 15

Q.7 a) Define leadership. Explain different styles of leadership. 8
   b) Discuss the essential qualities for leadership. 7

   UNIT-IV

Q.8 Write notes on:
   a) Management audit
   b) PERT and CPM 8 7

Q.9 Distinguish between planning and control. Describe the significance of control in modern business. 15
End Semester Examination, May 2014
BBA (GEN) / BBA (BANKING) – Second Semester
MACROECONOMIC ANALYSIS AND POLICY (bba-2002)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) Macroeconomics deals with the functioning of the ______ as a ______.
   b) National income is the sum total of ______ received in a year.
   c) Aggregate demand refers to total demand of ______ in the ______. 1x5
      Answer in brief:
   d) Explain the terms 'AS'. (Aggregate supply).
   e) Define effective demand.
   f) Give any two examples of indirect taxes.
   g) Write any two causes of inflation.
   h) What is monetary policy? 2x5

UNIT-I

Q.2 a) Describe circular flow of income in an open economy. 8
   b) Explain briefly the main concept of national income. 7

Q.3 Define business cycle. Explain the different phases of a business cycle. Suggest remedies to control boom and recession phase of a business cycle. 15

UNIT-II

Q.4 Explain the concept of investment multiplies. How do we calculate it? Show its forward and backward movement. 15

Q.5 Explain the concept of consumption function with the help of a diagram and an illustration. How is it related to multipliers? 15

UNIT-III

Q.6 Write a note on the nature, causes and impact of public debt in India. 15

Q.7 a) Distinguish between direct and indirect taxes with suitable examples. 8
   b) Is fiscal policy useful in controlling inflation and deflation? Explain. 7

UNIT-IV

Q.8 a) Describe the main functions of a Central Bank. 8
   b) Explain briefly the quantitative methods of credit control. 7

Q.9 Critically examine the effect of inflation on economic development. Mention the measures to control inflation. 15
End Semester Examination, May 2014
BBA (GEN) / BBA (BANKING) – Second Semester
COMPANY ACCOUNTS (bba-2003)

Time: 3 hrs Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) State whether the following statements are True or False:
   i) A company cannot purchase its own debentures.
   ii) A new company can issue its share on discount.
   iii) No preference shares can be redeemed if they are partly paid.
   iv) 'Net assets method' of valuation of share is also known as 'Intrinsic value method'.
   v) Interest on debentures is payable only when company earns profits. 1x5

b) Answer the following in brief:
   i) What is forfeiture of a share?
   ii) Enlist the various methods of redemption of debentures.
   iii) Define marked and unmarked application.
   iv) Discuss any two rights of underwriter.
   v) Define the term liquidation. 2x5

UNIT-I

Q.2 Faridabad Sugar Mills Limited issued a prospectus inviting applications for 20,000 shares of ₹10 each at a premium of ₹3 per share, payable as to ₹4 on application; ₹5 on allotment; ₹2 on first call; and ₹2 on final call. Applications were received for 27,000 shares. Directors allotted the shares as follows:
   Applicants of 16,000 shares _______ full.
   Applicants of 6,000 shares _______ 4,000 shares
   Applicants of 5,000 shares _______ Nil.

Give journal entries and prepare a cash book. Assuming that all sums due on allotment and calls have been received. 15

Q.3 Write short notes on:
   a) Issue of shares other than cash
   b) Buy back of shares
   c) Redemption of preference share capital 5x3

UNIT-II

Q.4 'X' Limited issues 2,00,000 shares. The issue was underwritten as follows:
   X —— 80,000 shares
   Y —— 70,000 shares
   Z —— 50,000 shares

Firm underwriting was:
   X —— 6,500 shares
   Y —— 3,300 shares
   Z —— 10,200 shares

P. T. O.
The total subscription including the firm underwriting was 1,85,000 shares and the forms included the following marked forms:

\[
\begin{align*}
X & : 50,000 \text{ shares} \\
Y & : 21,000 \text{ shares} \\
Z & : 24,000 \text{ shares}
\end{align*}
\]

Show the allocation of liability of underwriters if the firm underwriting shares are treated as:

a) Unmarked forms 

b) Marked forms.

Q.5 Write short notes on:

a) Methods of redemption of debentures. 

b) Issue of debentures as a collateral securities.

\textbf{UNIT-III}

Q.6 What do you understand by Liquidator’s final statement of accounts? When is it prepared and how? Explain with imaginary figures the liquidator’s final statement of account.

Q.7 a) Give the salient features of Indian accounting standards AS-18.

b) State briefly the items that are included in the miscellaneous expenditure head in the balance sheet of a company.

\textbf{UNIT-IV}

Q.8 Explain the factors which affect the valuation of goodwill. Discuss the various methods which are used for goodwill valuation.

Q.9 From the following information related to a company. Calculate the value of its equity shares:

\begin{align*}
a) & \text{Issued equity share capital} & 50,000 \text{ shares of } \text{Rs}10 \text{ each} \\
b) & \text{Paid up equity share capital} & \text{Rs}8 \text{ per share} \\
c) & \text{9% preference share capital} & 20,000 \text{ shares of } \text{Rs}10 \text{ each (fully paid)} \\
d) & \text{Annual transfers to G.R.} & 20\% \\
e) & \text{Rate of Tax} & 50\% \\
f) & \text{Expected profit before Tax} & \text{Rs}2,18,000 \\
g) & \text{Normal rate of dividend} & 15\% \\
\end{align*}
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Second Semester
INTRODUCTION TO MS OFFICE AND MULTIMEDIA (bba-2004)

Time: 3 hrs
Max Marks: 50
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1
a) A feature of MS Word that saves the document automatically after certain interval is available on:
   i) Save tab on options dialog box
   ii) Save as dialog box
   iii) Both of above
   iv) None of above
b) Merge cells options can be applied from:
   i) Format cells dialog box alignment tab
   ii) Formatting toolbar
   iii) Both of the above
   iv) None of above
c) Which of the following are valid minimum and maximum zoom sizes in MS Office?
   i) 10,000   ii) 20,250   iii) 10,500   iv) 10,100
d) .xls is an extension of?
   i) MS Word   ii) MS Excel   iii) MS PowerPoint   iv) None of these
e) When you are typing an equation into a cell the first thing that must be entered is:
   i) the first cell referenced
   ii) parenthesis
   iii) quotation marks
   iv) an equal sign
f) Data can be arranged in a worksheet in an easy to understand manner by:
   i) Auto formatting
   ii) Applying styles
   iii) Changing fonts
   iv) All of these
g) In Microsoft PowerPoint good design determines:
   i) Credibility   ii) First impression   iii) Readability   iv) All of the above
h) Graphics that contain movement are often referred to as:
   i) Animation
   ii) Motions
   iii) Premier adobe
   iv) Flash
i) One of the disadvantages of multimedia is:
   i) Cost
   ii) Adaptability
   iii) Usability
   iv) Relativity
j) Images included in many software titles is called:
   i) Clipart
   ii) Popups
   iii) .jpg files
   iv) .tiff files
UNIT-I
Q.2 Explain the following features of MS Word: Checking spelling and Grammar, page setup, header and footer, paragraph formatting.  
Q.3 What is mail merge? Create a document and send it to 10 people using mail merge formality.  

UNIT-II
Q.4 Explain the various components of PowerPoint screen.  
Q.5 How can we create a great PowerPoint presentation? Explain the steps required to print the PowerPoint presentation.  

UNIT-III
Q.6 How are charts helpful in Excel? Compare any three chart types in Excel.  
Q.7 What is cell referencing? Differentiate absolute and relative cell referencing with the help of an example.  

UNIT-IV
Q.8 Explain any two multimedia software packages. Discuss the web application of multimedia.  
Q.9 Explain why multimedia developers need storyboards.
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Second Semester
ORGANIZATIONAL BEHAVIOUR (bba-2005)

Time: 3 hrs Max Marks: 75
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer briefly:
   a) What do you understand by organizational behavior? 3
   b) What are the major traits of leaders? 2
   c) What is the significance of motivation? 2
   d) Discuss the personality traits that can be of much use in attaining managerial effectiveness. 2
   e) What are the various causes of conflict? 2
   f) How does organizational climate differ from organizational culture? 2
   g) Define politics in your own words. 2

UNIT-I

Q.2 Discuss in detail the foundation of organizational behavior. 15

Q.3 Write short notes on:
   a) Emerging trends and changing profile of workforce.
   b) Organizational behavior is a multidisciplinary subject. 7½x2

UNIT-II

Q.4 a) What factors should be taken into account while developing motivation system for employees? 6
   b) Explain Herzberg’s two factor theory and differentiate it from Maslow’s theory of need hierarchy. 9

Q.5 Explain various dimensions of attitude of employees. Also explain the importance of the study of attitudes to the organization. 15

UNIT-III

Q.6 “Communication is considered to be the most important and most effective ingredient of the management process”. If you agree with this statement, give reasons and examples to support your belief. 15

Q.7 a) What are the guidelines for effective decision making?
   b) What steps can be taken to reduce and resolve conflict that is structural in nature?
   c) Write an essay on the concept of group cohesiveness. 5x3

UNIT-IV

Q.8 a) What are the precautions to be taken while initiating changes in an organization?
   b) Discuss the different types of organizational structure. 7½x2

Q.9 What is organizational culture? How does it affect the behavior of the people? 15
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Second Semester
QUANTITATIVE ANALYSIS (bba-2006)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) If P_{20}=10.25; then D_2=__________.
   b) An observation repeated a more number of times in any series is _________.
   c) _________ is used to measure average speed.
   d) Classification is the first step towards _________.
   e) Skewness is used to measure _________ of the data.
   f) Harmonic mean is defined as _________.
   g) If mean=20 and median=30, the mode=_______.
   h) _______ index number satisfies both the tests i.e. time reversal and factor reversal tests.

UNIT-I

Q.2 a) Briefly discuss the essential parts of a statistical table by giving an example.
   b) Draw less than a give curve for the data given below:
      Marks: 0-10 10-20 20-30 30-40 40-50 50-60
      Frequency: 10 9 25 30 10 16

Q.3 Draw a suitable bar diagram for the data given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>2001-02</th>
<th>2002-03</th>
<th>2003-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Income:</td>
<td>460</td>
<td>482</td>
<td>552</td>
</tr>
<tr>
<td>Gross Expenditure:</td>
<td>400</td>
<td>450</td>
<td>500</td>
</tr>
<tr>
<td>Net Income:</td>
<td>60</td>
<td>32</td>
<td>22</td>
</tr>
</tbody>
</table>

UNIT-II

Q.4 Calculate median, mode, Q_3, D_7, and P_{10} for the data given below:

<table>
<thead>
<tr>
<th>Class Interval:</th>
<th>10-14</th>
<th>15-19</th>
<th>20-24</th>
<th>25-29</th>
<th>30-34</th>
<th>35-39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency:</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

Q.5 a) What do you mean by central tendency? Explain the different measures of central tendency.
   b) The score of two batsmen A and B in 10 innings during a certain season are:
      A: 32 28 47 63 71 39 10 60 96 14
      B: 19 31 48 53 67 90 10 62 40 80

P. T. O.
UNIT-III

Q.6  a) Distinguish between positive and negative correlation with the help of a scatter diagram.

b) Ten competitors in a beauty contest are ranked by three judges in the following order:

| Judge I: | 1 | 4 | 8 | 9 | 6 | 10 | 7 | 3 | 2 | 5 |
| Judge II: | 4 | 8 | 7 | 5 | 9 | 6 | 10 | 2 | 3 | 1 |
| Judge III: | 6 | 7 | 1 | 8 | 10 | 5 | 9 | 2 | 3 | 4 |

Calculate the Rank Correlation for each judge.

Q.7  The following data give the aptitude test scores and productivity indices of 10 workers selected at random:

| Aptitude scores: | 60 | 62 | 65 | 70 | 72 | 48 | 53 | 73 | 65 | 82 |
| Productivity Index: | 68 | 60 | 62 | 80 | 85 | 40 | 52 | 62 | 60 | 81 |

Calculate two regression equations.

UNIT-IV

Q.8  a) Calculate Fisher’s ideal index from the given data. Does it satisfy the time reversal and factor reversal tests?

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Price</th>
<th>Quantity</th>
<th>Price</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6</td>
<td>50</td>
<td>10</td>
<td>56</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>100</td>
<td>2</td>
<td>120</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>60</td>
<td>6</td>
<td>60</td>
</tr>
<tr>
<td>D</td>
<td>10</td>
<td>30</td>
<td>12</td>
<td>24</td>
</tr>
<tr>
<td>E</td>
<td>8</td>
<td>40</td>
<td>12</td>
<td>36</td>
</tr>
</tbody>
</table>

b) Write limitation of index numbers.

Q.9  a) Discuss the application of time series in business decisions.

b) Below are given the figures of production (in thousand quintals) of a sugar factory:

<table>
<thead>
<tr>
<th>Year:</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production:</td>
<td>77</td>
<td>88</td>
<td>94</td>
<td>85</td>
<td>91</td>
<td>98</td>
<td>90</td>
<td>87</td>
</tr>
</tbody>
</table>

Fit a straight line trend by method of least squares.
End Semester Examination, May 2014
BBA (GEN) / BBA (BANKING) – Third Semester
COST AND MANAGEMENT ACCOUNTING (bba-3001)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 State whether True or false:
a) Direct cost is that which can’t be easily allocated to cost units. 1
b) A department which renders service only to the production department is called as a service department. 1
c) Preventive cost and replacement costs have inverse relationship. 1
d) Margin of safety =break even sales-fixed costs. 1

Fill in the blanks:
e) Predetermined cost based on past performance adjusted to anticipated changes is called __________. 1
f) In responsibility accounting, costs are segregated into _______ and _______. 2

Write two sentences about:
g) Cost centre. 2
h) Variable cost. 2
i) Time booking. 2
j) Office overheads. 2

UNIT-I

Q.2 Explain in detail classification of costs.

Q.3 Explain management accounting. Compare it with cost accounting and financial accounting. 15

UNIT-II

Q.4 What is idle time? Explain the causes leading to idle time and its treatment in cost accounts. 15

Q.5 A company has 3 production cost centres A, B and C; two service cost centres X and Y, costs allocated to service centres are required to be apportioned to the production centres to find out cost of production of different products. It is found that the benefit of service centres is received by each other along with production centres. Overheads costs and estimated benefit of service centres as received by each of them are as under:

<table>
<thead>
<tr>
<th>Cost centre</th>
<th>Overhead cost allocated (Rs.)</th>
<th>Estimation of benefits received from service centre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>A</td>
<td>80,000</td>
<td>20</td>
</tr>
<tr>
<td>B</td>
<td>40,000</td>
<td>30</td>
</tr>
<tr>
<td>C</td>
<td>20,000</td>
<td>40</td>
</tr>
<tr>
<td>X</td>
<td>20,000</td>
<td>-</td>
</tr>
<tr>
<td>Y</td>
<td>10,000</td>
<td>10</td>
</tr>
</tbody>
</table>

Find out overhead cost of each of the production department including reapportioned cost using simultaneous equation method. 15

P. T. O.
UNIT-III

Q.6 The following figures are extracted from the books of a manufacturing concern for a year.

<table>
<thead>
<tr>
<th></th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct material</td>
<td>2,05,000</td>
</tr>
<tr>
<td>Direct labour</td>
<td>75,000</td>
</tr>
<tr>
<td>Fixed overheads</td>
<td>60,000</td>
</tr>
<tr>
<td>Variable overheads</td>
<td>1,00,000</td>
</tr>
<tr>
<td>Sales</td>
<td>5,00,000</td>
</tr>
</tbody>
</table>

Calculate breakeven point. What will be the effect on BEP of an increase of 10 % in:

i) Fixed expenses.  
ii) Variable expenses.  

Q.7 a) Enumerate the limitations of using marginal costing technique.  
b) Differentiate between marginal costing and absorption costing.  

UNIT-IV

Q.8 The operating results of a business are as follows for the year 2012:

<table>
<thead>
<tr>
<th></th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales (40,000) units</td>
<td>48 lakhs</td>
</tr>
<tr>
<td>Cost of sales:</td>
<td></td>
</tr>
<tr>
<td>Direct material</td>
<td>15 lakhs</td>
</tr>
<tr>
<td>Direct labour</td>
<td>13 lakhs</td>
</tr>
<tr>
<td>Factory overhead</td>
<td>6.5 lakhs</td>
</tr>
<tr>
<td>Administrative overhead</td>
<td>4 lakhs</td>
</tr>
<tr>
<td>Selling and distribution</td>
<td>4.5 lakhs</td>
</tr>
</tbody>
</table>

The following changes are to be incorporated for the budget of year 2013:

a) Sales to be increased by 25 % in units.  
b) Material price to be increase by 15 %.  
c) Direct wages up by 12 %.  
d) Overhead
   Factory – up by 15 %.  
   Selling and distribution –up by 10 %.  
   Administrative – same.  
e) Profit target is Rs. 6 lakhs.  

Calculate the unit selling price and present the budget for year 2013.  

Q.9 Define standard costs. What are the advantages of setting standard costing system?  
What are the problems faced in setting standard costs?
End Semester Examination, May 2014
BBA (GEN)/ BBA (Banking) – Third Semester
HUMAN RESOURCE MANAGEMENT (bba-3002)

Time: 3 hrs  
Max Marks: 75  
No. of pages: 1

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following briefly:
   a) Define human resource and human resource management. 3
   b) Differentiate between offshoring and outsourcing. 2
   c) Discuss the two categories of functions of human resource management. 2
   d) What is profit sharing? 2
   e) What is employee leasing? 2
   f) What is e-learning? 2
   g) Differentiate between career planning and career development. 2

UNIT-I

Q.2 "Human resource development is nothing but looking at the development of manpower of an organization in the light of its requirement". Do you agree with this statement? Give reasons for your views. 15

Q.3 Write short notes on:
   a) Strategic human resource management. 7½
   b) Need of Human resource information system. 7½

UNIT-II

Q.4 You have been asked to organize recruitment and selection of office staff for a new branch office. Indicate the possible sources of manpower supply and enumerate the steps involved in the selection procedure. 15

Q.5 Write short notes on:
   a) Job analysis. 7½
   b) Essentials of good transfer policy. 7½

UNIT-III

Q.6 Give an exact idea of:
   a) On-the-job management development techniques. 15
   b) Off-the-job techniques of training and development of managers.

Q.7 "Performance appraisal is not merely for appraisal but is for accomplishment and improvement of performance". Discuss 15

UNIT-IV

Q.8 Write an explanatory note on following:
   a) ESOP 5x3
   b) Fringe benefits
   c) Fair Wage

Q.9 Explain in brief the main provisions under the Factories Act, 1948 for the safety of workers. 15
End Semester Examination, May 2014  
BBA (GEN)/BBA (Banking) – Third Semester  
PRODUCTION MANAGEMENT (bba-3003)

Time: 3 hrs  
Max Marks: 75

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following briefly:
   a) Write any two activities of production management.
   b) Name few material handling equipments.
   c) Give any two examples of a batch production system.
   d) Define acceptance sampling.
   e) State any two factors affecting plant layout.
   State whether the followings are true or false:
   f) Process layout is also called as functional layout.
   g) Job order is a type of intermittent production system.
   h) Locational break-even analysis is one of the methods of evaluating plant location.
   i) String diagrams are useful recording technique used in method study.
   j) ABC analysis is not a technique of inventory control.

UNIT-I

Q.2 What is production management? Discuss the long-term and short-term decisions of production management.

Q.3 a) Discuss the objectives and importance of production management.
   b) Bring out the difference between goods and services from POM viewpoint.

UNIT-II

Q.4 a) Differentiate between ‘production to order’ and ‘production to stock’ systems.
   b) Briefly discuss each type of plant layout.

Q.5 a) Define plant location. Discuss various factors affecting plant location decision, if you want to establish a paper manufacturing plant in Gujarat.
   b) Evaluate the advantages and disadvantages of an urban site and a rural site.

UNIT-III

Q.6 a) Discuss the various elements of production planning and control (PPC).
   b) What do you mean by the term ‘work study’? State its benefit.

Q.7 Eight jobs go first over M1 and then on M2. The order of completion of jobs has no significance. The following table gives the machine times in minutes for eight jobs and two machines:

<table>
<thead>
<tr>
<th>Job No:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1:</td>
<td>10</td>
<td>8</td>
<td>12</td>
<td>9</td>
<td>7</td>
<td>13</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>M2:</td>
<td>6</td>
<td>10</td>
<td>7</td>
<td>15</td>
<td>10</td>
<td>8</td>
<td>16</td>
<td>12</td>
</tr>
</tbody>
</table>

Find the sequence of jobs that minimizes the total elapsed time to complete the jobs. Also calculate the idle time on both the machines.

UNIT-IV

Q.8 a) Discuss various control charts for variable and attributes.
   b) Discuss EOQ model of inventory control.

Q.9 a) Explain various types of maintenance undertaken in manufacturing operations.
   b) “Inspection is a tool for controlling quality.” Comment.
End Semester Examination, May 2014  
BBA (GEN)/ BBA (Banking) – Third Semester  
DATABASE MANAGEMENT SYSTEM (bba-3004)

Time: 3 hrs  
Max Marks: 50  
No. of pages: 2

Note: Attempt any FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) Define data  
b) Define virus  
c) How many codd’s rules are there for databases?  
d) What is schema?  
e) DCL stands for ________ .  
f) Define primary key.  
g) Two types of backup are _________, _________ .  
h) What do you mean by constraint?  
i) DBA stands for ________ .  
j) Define normalization.  

UNIT-I  

Q.2  
a) Discuss:  
b) Data versus information.  
c) Clauses used in SQL.  

5  
5

Q.3  
a) Explain data dictionary.  
b) Discuss file oriented system versus database system.  

5  
5

UNIT-II  

Q.4  
What is an E-R diagram? Explain library management system with the help of an E-R diagram.  

10

Q.5  
What is normalization? Explain its types in detail with suitable examples.  

10

UNIT-III  

Q.6  
a) What do you mean by threats for databases? Explain virus and its types with examples.  
b) Define network firewall. Explain any two types of firewalls.  

5  
5

Q.7  
What do you mean by database recovery? Explain all the recovery techniques with examples.  

10

UNIT-IV  

Q.8  
a) Explain the following:  
b) Spatial databases  
b) Mobile databases  

5x2

Q.9  
What is data warehousing? What are the database technologies in data warehousing?  
Explain.  

10
Q.1 Answer the followings:
a) Name one example of consumers.
b) Which day is celebrated as the 'World Population Day'?
c) Name one source of water pollution.
d) What is acid rain?
e) What are conventional sources of energy?
Expand the following:
f) AIDS
g) LPG
h) WHO
i) CFC
j) CO₂

UNIT-I
Q.2 a) What is meant by 'Environmental Studies'? Discuss its nature and scope. 5
b) What are renewable resources? What method can be opted to control the over-utilization of these resources? 5

Q.3 Write explanatory notes on the following:
a) Conservation of natural resources. 5
b) Role of individuals in conservation of environment. 5

UNIT-II
Q.4 a) Write a note on detritus food chain. 5
b) What does a pyramid of energy indicate? 5

Q.5 a) Briefly describes the causes and effects of noise pollution and marine pollution. 5
b) Discuss various causes, effects and control measures of urban and industrial wastes. 5

UNIT-III
Q.6 Write short notes on the following:
a) Water conservation 5
b) Resettlement and Rehabilitation of people. 5

Q.7 What is global warming? Discuss the causes and control measures of global warming. 10

UNIT-IV
Q.8 What is Water (Prevention and Control of Pollution) Act? Discuss various functions of the Control and the State Board enlisted under this Act. 10
Q.9 Write an explanatory note on the environmental legislations. 10
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Fourth Semester
INDIAN BUSINESS ENVIRONMENT (bba-4001)

Time: 3 hrs  Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following questions in brief:
   i) Write any two objective of GATT (General Agreement on Trade and Tariffs).
   ii) Define balance of payments.
   iii) Give two objectives of industrial licensing policy.
   iv) Discuss the main features of Indian economy.
   v) Define public sector enterprises.  2x5
   Fill in the blanks:
   vi) FDI stands for __________.
   vii) __________ policy frames rules and regulations for exports and imports of a
country.
   viii) __________ and __________ are the external causes of industrial sickness in
India.
   ix) __________ is an institution that accepts deposits from the public.  1x5

UNIT-I

Q.2 "It is in the interest of business to fulfill its social responsibilities towards different
   interested groups." Explain this statement.  15

Q.3 Explain the causes of poor performance of public enterprises in India. Give
   suggestions to improve their performance.  15

UNIT-II

Q.4 What is privatization? Discuss its impact on Indian economy.  15

Q.5 a) Explain the causes of industrial sickness in India.  8
   b) Examine the main features of present industrial policy of India.  7

UNIT-III

Q.6 "With increase in competition and improvement in technology in banking sector,
   the challenges facing public sector banks have increased." Discuss.  15

Q.7 Explain the objectives and features of New Foreign Trade Policy 2009-14. And
   critically evaluate it.  15

UNIT-IV

Q.8 What is meant by World Trade Organization? Discuss it objectives, scope and
   important agreements.  15

Q.9 Write short notes on:
   a) Role of MNCs in India  8
   b) Objectives of World Bank.  7
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Fourth Semester
FINANCIAL MANAGEMENT (bba-4002)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) Investing ₹_______ for 3 years@10% will amount to ₹._______.
   b) Current Assets=_______ working capital.
   c) Capital structure refers to mix of _______ and _______ in the capital invested.
   d) At _______ discount rate, net present value equals to zero.
   e) Dividend payout ratio is the _______ of earnings distributed to share holders. 2x5

   State whether the statement is True or False:
   f) Profit maximization is the ultimate objective of financial management.
   g) Retained earnings carry the cost of capital which is equal to equity capital cost.
   h) Financial leverage is inversely proportional to operating leverage.
   i) Net income approach assumes zero taxation environments.
   j) Dividend decision plays an important role in maximizing the value of the firm. 1x5

UNIT-I

Q.2 Define financial management. Also discuss its functions, scope and significance in service industry. 15

Q.3 Compare profit maximization and wealth maximization as a decision criteria. Which one do you think is better? Justify your answer with suitable examples. 15

UNIT-II

Q.4 Define capital budgeting. Why is it required? Explain various methods of capital budgeting along with relative merits and demerits. 15

Q.5 As a finance manager, compare the following mutually exclusive projects that require an equal investment of ₹150,000/- and are expected to generate the cash flows as under:

<table>
<thead>
<tr>
<th>Year</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>45000</td>
<td>45000</td>
<td>27000</td>
<td>18000</td>
<td>27000</td>
<td>28500</td>
</tr>
<tr>
<td>B</td>
<td>27000</td>
<td>37500</td>
<td>39000</td>
<td>45000</td>
<td>30000</td>
<td>25500</td>
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<td>0.751</td>
<td>0.683</td>
<td>0.621</td>
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</table>

Considering 10% discount rate which project should be chosen? 15

UNIT-III

Q.6 Explain the traditional approach to optimize the capital structure using suitable example. How does this approach differ from M-M approach? 15

Q.7 Differentiate between financial and operating leverage. Leverages are two-edge swords. Explain this statement using example. 15

UNIT-IV

Q.8 Explain in detail Walter model of dividend. How does it help in determining the dividend policy of a firm? 15

Q.9 a) Define working capital. Explain the concept of net working capital in working capital management.

b) Calculate the working capital employed in a firm engaged in providing prepaid mobile services. 7
End Semester Examination, May 2014  
BBA (GEN) / BBA (Banking) – Fourth Semester  
MARKETING MANAGEMENT (bba-4003)

Time: 3 hrs

Max Marks: 75

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q1 is compulsory. All questions carry equal marks.

Q.1 Write notes on any two:  
a) Differentiate between marketing and selling.  
b) Personal selling.  
c) Branding.  
d) Product life cycle (PCL) concept.  

UNIT-I

Q.2 Discuss the stages of marketing process highlighting the important decisions that are taken at each stage.  

Q.3 Consider yourself CEO of ABC company producing refrigerators. Discuss marketing mix (4Ps) for your organization.  

UNIT-II

Q.4 Define marketing research and also outline the steps in the marketing research process alongwith diagram.  

Q.5 There is no single way to segment a market. Discuss the major variable that might be used in segmenting consumer markets.  

UNIT-III

Q.6 Explain the various stages of new product development alongwith suitable examples.  

Q.7 Most producers do not sell their goods directly to final users. Between producers and final users stands one or more marketing channels. Discuss the importance of channels of distribution.  

UNIT-IV

Q.8 a) Explain the concept and importance of advertising.  
b) Is advertising a necessary economic function in modern business?  

Q.9 Sales promotion makes the customer’s price conscious, and can damage the entire industry if used indiscriminately. Put your views with the help of suitable example.
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Fourth Semester
BUSINESS RESEARCH METHODS (bba-4004)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following briefly:
   a) Define research.
   b) Differentiate between ordinal and cardinal scale.
   c) Define an independent variable.
   d) Differentiate between concept and construct. 2x4
   State whether statement are True/False:
   e) A study to analyse the profile of the supporters of Anna Hazare would need a cross-sectional research design. 2
   f) The data that is always collected first in a research study is called primary data. 1
   g) ‘Are you a vegetarian? Yes/No’ is an example of an open-ended question. 2
   h) The first step in the data analysis process is data validation. 2

UNIT-I

Q.2 Differentiate between management decision problem and a management research problem. Do all decision problems require research? Explain with examples. 15

Q.3 a) What are steps in a typical research? 7
   b) Explain different types of research. 8

UNIT-II

Q.4 How are research designs classified? What are the distinguishing features of each? Differentiate by giving appropriate examples. 15

Q.5 a) Describe the various scaling techniques used in businesses research. 7
   b) Explain the following:
      i) Completely randomized design
      ii) Randomized block design 4x2

UNIT-III

Q.6 What is the significance of sample selection in research? Discuss different sampling methods. 15

Q.7 a) How can secondary data be classified? Elaborate on each type with suitable examples. 7½
   b) What principles should be followed for an ideal questionnaire design? Illustrate with a suitable example. 7½

UNIT-IV

Q.8 a) Explain important techniques which are used in descriptive analysis. 7
   b) Discuss in brief the various statistical tools used in analyzing the data. 8

Q.9 What should be the ideal structure of a research report? What the elements of the structure defined by you? 15
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Fourth Semester
BUSINESS LAW (bba-4005)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) State whether each of the following statements is true or false:
   i) An agent can delegate his powers or duties to another without the express authority of the principle.
   ii) A note bill or cheque is payable to order which is expressed to be ‘payable to a particular person or his order’.
   iii) A ‘repository’ is an online database of digital signature certificates.
   iv) There are three parties involved in the contrast of indemnity.
   v) A contingent of contract is valid whereas wagering contract is void. 1x5

b) Fill in the blanks:
   i) In a contract guarantee, the liability of the surety is ________.
   ii) Notice of dishonour means formal ________ of the fact of dishonour.
   iii) Information Technology Act, 2000 has been designed to give boost to ________.
   iv) Unnamed principle means a principle whose existence is ________ by the agent. 1x4

   c) Answer the following questions in one or two sentences:
      i) When acceptance can be revoked?
      ii) Distinction between coercion and undue influence.
      iii) When an unpaid seller can exercise the right of resale of goods? 2x3

UNIT-I

Q.2 Distinguish between void agreement and void contracts. Enumerate the agreements which have been expressly declared to be void by the Indian Contract Act, 1872. 15

Q.3 What do you mean by breach of a contract? Discuss briefly the remedies for breach of contracts. 15

UNIT-II

Q.4 Define a holder and a holder in due course and distinguish between them. Also explain the rights of holder in due course. 15

Q.5 What is meant by negotiation? Explain the modes of negotiation. 15

UNIT-III

Q.6 a) “Ratification is tantamount to prior authority”. Explain. 8
   b) Explain the rights and duties of an agent to his principle. 7

Q.7 Define the concepts of condition and warranty. What conditions and warranties are implied in a contract of sale? 15

UNIT-IV

Q.8 What is a contract of guarantee? What are its special features? Distinguish between a contract of guarantee and a contract of indemnity. 15

Q.9 a) Discuss various criminal penalties given under sec. 65 to 76 of the Information Technology Act, 2000. 10
   b) Define digital signature as used in the Information Technology Act, 2000. 5
End Semester Examination, May 2014
BBA (GEN) / BBA (Banking) – Fourth Semester
INFORMATION SYSTEM IN MANAGEMENT (bba-4006)

Time: 3 hrs  Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Critical ________ factors are those that are vital if a manager is to make a full contribution to the achievement of an organization’s goal.
   i) Tactical.  ii) Success.
   iii) Decision.  iv) None of these.

b) Name two type of firewalls used in computer security system.

c) Working at home might seem like an interesting option. However, ________ contract with other co-workers does have advantages.
   i) Teleconferencing.  ii) Communicating.
   iii) Face to face.  iv) Name of the above.

d) Name categories of e-commerce.

e) Name components of information systems.

f) Staff less organization can also be stated as ________.

g) Consistent data can give accurate information.
   i) True.  ii) False.

h) An MIS provides:
   i) Post information.  ii) Present information
   iii) Future information.  iv) All of the above.

j) Define data.

UNIT-I

Q.2  "An information system helps in making decisions in an organization". Justify this statement.

Q.3  a) Difference between data and information.
     b) Components of an information system.

UNIT-II

Q.4  "Management information system supports management in various activities". Explain this statement.

Q.5  Explain:
   a) Financial information system.
   b) Human resource information system.

UNIT-III

Q.6  What is a process? Explain critical success factors in implementing an information system.

Q.7  How quality standards could be maintained in an organization? Explain different quality standards for manufacturing and service industry.

UNIT-IV

Q.8  How security could be maintained in relevance to e-money? Explain your answer with example.

Q.9  Categories e-commerce and explain the types of e-commerce.
End Semester Examination, May 2014  
BBA (GEN) – Fifth Semester  
INDIAN FINANCIAL SYSTEM (bba-5002)  

Time: 3 hrs  
Max Marks: 75  
No. of pages: 1  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. 
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer in brief:  
a) What is money market?  
b) Which Act gives regulatory jurisdiction over capital market?  
c) What is “future”?  
d) What is merchant banking?  
e) Mention four components of depository system.  
f) Who regulates the Indian money market?  
g) What is stock market index?  
h) What is seed fund?  
i) What are income funds?  
j) Define treasury bills.  

UNIT-I  
Q.2 "The financial system of an economy helps in capital formulation in any country". Justify the statement elaborating the structure and functions of Indian financial system.  

Q.3 Explain the structure and role of financial market in India. Also discuss various securities used to raise funds in capital and money market.  

UNIT-II  
Q.4 What are stock exchanges? Discuss in detail the procedure of trading and settlement in National Stock Exchange (NSE).  

Q.5 Explain in detail the regulatory regime for financial system in India. Also mention the role and functions of SEBI.  

UNIT-III  
Q.6 Define depository system in India. Explain the process of de-materialization. Also discuss its benefits to investors and stock exchanges.  

Q.7 Discuss the role of debt market in India. Explain in detail the structure and participants of debt market in India.  

UNIT-IV  
Q.8 What is credit rating? Discuss its benefits for capital market. Also mention various credit rating agencies and their rating grades.  

Q.9 Explain:  
a) Mutual funds  
b) Venture capital
End Semester Examination, May 2014
BBA (GEN) – Fifth Semester
COMPANY LAW (bba-5003)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Write two three sentences about:
   a) Modes of winding up
   b) One man company
   c) Appointment of directors of board.
   d) Defunct company.

   Fill in the blanks:
   e) Every public company must have at least _______ directors.
   f) Prospectus issued by any financial institution or bank for one or more issues of securities or class of securities specified in it is called _______.
   g) _______ company can start business immediately on incorporation and need not to wait for certificate of commencement.
   h) If a public company does not register any articles then _______ shall automatically apply to such a company.

   State whether True or False:
   i) An insolvent ceases to be member of company on becoming insolvent.
   j) In calculating the number of directorship of a person the directorship of unlimited company is not counted.
   k) The register of members of a company is to be kept with board of directors of the company.

UNIT-I

Q.2 Define corporate veil. Under what circumstances it is lifted or pierced? 15

Q.3 Distinguish between memorandum and articles of the company. Also discuss their binding effect. 15

UNIT-II

Q.4 What is a statutory meeting? Explain the contents of statutory report and consequences of not holding statutory meeting. 15

Q.5 "All shareholders are members of company but all members need not be shareholders of company". Discuss the statement and explain the various modes through which an individual may acquire the membership of company. 15

UNIT-III

Q.6 "Directors are not only agents but also in some sense trustees of the company". Discuss the statement and bring out the powers of directors. 15

Q.7 Explain in detail the provisions in relation to appointment and removal of auditors of a company. 15

UNIT-IV

Q.8 Describe the provisions of The Companies Act relating to voluntary winding up of a company. 15

Q.9 Who is an official liquidator? Explain duties and powers of a liquidator. 15
Q.1 Multiple choice questions:
   a) FTP is:
      i) used to send email
      ii) used to browse the web
      iii) a part of netscape
      iv) a protocol for the transfer of files between computers.
   b) Which of the following performs modulation and demodulation?
      i) Fibre optics ii) Satellite
      iii) Coaxial cable iv) Modern
   c) The internet was developed by US
      i) Department of defense
      ii) Department of electronics
      iii) Department of commerce
      iv) None of the above
   d) HTML is similar to a
      i) word processing language
      ii) screen editor
      iii) scripting language
      iv) search engine
   e) Why was the OSI developed?
      i) Manufacturers disliked the TCP/IP protocol.
      ii) The rate of data transfer was increasing exponentially.
      iii) Standards were needed to allow any two systems to communicate
      iv) None of the above
   f) A ______ is a set of rules that governs data communication:
      i) Forum ii) Protocol
      iii) Standard iv) None of the above
   g) What is the main function of a transport layer?
      i) node to node delivery
      ii) synchronization
      iii) process to process message delivery
      iv) updating and maintenance of routing tables
   h) Mechanism to protect private networks from outside attack is:
      i) Firewall ii) Antivirus
      iii) Digital signature iv) Formatting
   i) URL means
      i) address of the resource on the web
      ii) term used to get online program
      iii) term used to describe website
      iv) None of these
   j) Which tag is used to create body text in HTML?
      i) <HEAD> ii) <TEXT> iii) <TITLE> iv) <BODY> 1x10
UNIT-I
Q.2 Name all the basic network topologies and describe advantages of each. Draw proper diagram of each topology.
Q.3 What are analog and digital signals? How their transmission can be distinguished from each other?

UNIT-II
Q.4 What is network security? How firewall can ensure the security of network?
Q.5 Define protocol. Discuss the key elements of a protocol. What are various classification of protocols?

UNIT-III
Q.6 What do you mean by frames? Why are they used in HTML documents? How are frames inserted in a HTML documents?
Q.7 Discuss the major application areas of internet.

UNIT-IV
Q.8 Explain the concepts and architecture of intranet.
Q.9 Write short notes on:
   a) Protocols of communication
   b) HTTP
End Semester Examination, May 2014  
BBA (GEN) – Fifth Semester  
WORKSHOP ON PERSONALITY AND SOFT SKILLS DEVELOPMENT  
(bba-5005)

Time: 3 hrs  
Max Marks: 50  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Give one word answers for the following:  
i) The Latin word from which the word personality is derived _________.  
ii) The moral behavior of an individual _________.  
iii) Personality patterns that show basic similarities _________.  
iv) Best child training method _________.  
v) People with tall thin body _________.  

b) Fill in the blanks:  
i) Other people’s judgment of you is called _________.  
ii) Very strict child training method is called _________.  
iii) In an interview you must try and create a good first _________.  
iv) The uniqueness of each person is called _________.  
v) A state of high mental disturbance which becomes habitual is called _________.  
 1x5

UNIT-I

Q.2 ‘Each personality is unique’. Keeping in mind the above statement, discuss the differences in personality patterns of individuals.  
 10

Q.3 Write short notes on the following:  
a) Success.  
b) Reputation.  
  5x2

UNIT-II

Q.4 a) Discuss the role of family in determining the personality of a child.  
b) What factors help in moulding the personality of an individual?  
  5x2

Q.5 What are the different methods of training a child? What according to you is the best method and why?  
  10

UNIT-III

Q.6 How important is appearance in determining the personality of a person? Also highlight the importance of body language, personal hygiene and appearance.  
  10

Q.7 Write notes on any two:  
a) Healthy personality.  
b) Building effective teams.  
c) Conducting meetings.  
  5x2

UNIT-IV

Q.8 Building effective teams is an important leadership skill. Discuss the above laying stress on interpersonal and group skills.  
  10

Q.9 Before appearing for an interview a lot of practice and preparation is required. Discuss the points which need to be kept in mind in order to make the interview successful.  
  10
End Semester Examination, May 2014
BBA (GEN) – Sixth Semester
TAXATION LAWS (bba-6001)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) VAT stands for ________.
   b) Current rate of service tax in India is ________.
   c) TIN stands for ________ which consists of ________ digit numerals throughout the country.
   d) Service tax return is to be filed on ________ basis. 1x5
   e) T.D.S. stands for tax deducted by service tax department.
   f) It is optional for a dealer to opt for composition scheme.
   g) Expenses incurred by service provider as a pure agent is deductible.
   h) Floriculture is subject to service tax.
   i) Meaning of capital gains
   j) Zero-rated sales
   k) Income under the head house-property

   STATE TRUE or FALSE:
   Write two sentence about (20-30 words):
   Write short notes on:
   1. Meaning of capital gains
   2. Zero-rated sales
   3. Income under the head house-property

UNIT-I

Q.2 Discuss the scope of total income on the basis of residence. 15

Q.3 Write short notes on:
   a) Gross total income
   b) Income exempted U/S 10A
   c) Previous year and assessment year 5x3

UNIT-II

Q.4 What do you mean by advance payment of tax? Explain the provisions of Income tax related to advance payment of tax. 15

Q.5 Explain:
   a) Meaning of salary
   b) Taxability of agriculture income
   c) Current applicable rate of income tax for individual 5x3

UNIT-III

Q.6 Write a detailed note highlighting justification of VAT in India. 15

Q.7 Write short notes on:
   a) Composition scheme
   b) Contents of VAT invoice
   c) Variants of VAT 5x3

UNIT-IV

Q.8 Briefly explain the services given in negative list. 15

Q.9 Discuss the rules pertaining to determination of value of taxable services in different circumstances. 15
End Semester Examination, May 2014
BBA (GEN) – Sixth Semester
SYSTEM ANALYSIS AND DESIGN (bba-6002)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Define a prototype.
     b) What are the characteristics of a primary key?
     c) Give name of SDLC phases.
     d) Define integration testing.
     e) Give name of feasibility studies.
     f) Which of the following is not a fact-finding technique?
        i) Third party enquiry  
        ii) Interview  
        iii) Questionnaire 
        iv) Record reviews  
        v) Observation 
     g) Cost benefit analysis is performed during:
        i) Analysis phase  
        ii) Design phase  
        iii) Implementation phase 
        iv) Feasibility study phase  
        v) Maintenance phase 
     h) The primary tool used in structured design is a:
        i) Structured chart  
        ii) Data flow design 
        iii) Program flow chart  
        iv) Module 
     i) DDL stands for ________:
     j) A form is also known as ________.

UNIT-I

Q.2  Explain E-R model of library management system. How does it help to construct a design/layout of the system?

Q.3  Write short notes on:
     a) Prototyping model.
     b) Case tools.

UNIT-II

Q.4  What do you mean by SDLC? Explain each phase by a proper example.

Q.5  Discuss the following:
     a) Fact finding techniques.
     b) Economic feasibility study.

UNIT-III

Q.6  Discuss the following:
     a) Differentiate between file system and database system.
     b) Hardware and software selection.

Q.7  Explain the term benchmarking with the help of proper examples.

UNIT-IV

Q.8  Write short notes on:
     a) Review plans.
     b) Pre and post implementation testing.

Q.9  Explain the following:
     a) Backup and Recovery plans.
     b) Training review plans.
End Semester Examination, May 2014
BBA (GEN) – Sixth Semester
FOUNDATION OF INTERNATIONAL BUSINESS (bba-6003)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks
a) ______ is the best way to enter into foreign markets with appropriate resources. 2
b) ______ BOP position helps to appreciate the currency of an economy. 2
c) ______ theory describes the cost of factor as an incentive for international trade. 2
d) IMF is an institution that facilitates international_______. 2

State whether the statement is TRUE or FALSE:
e) Joint venture is an arrangement whereby a company appoints its equity partner. 2
f) WTO is an institution to facilitate cross border transactions. 2
g) Family branding is the best way to optimize the advertising costs. 2
h) Foreign institutional investment for an economy is better than direct investment. 1

UNIT-I

Q.2 a) Differentiate between globalization and international business. Discuss various risk and challenges of international business. 8
b) Explain various components of international business environment. 7

Q.3 Describe various stages of internationalization. Discuss various modes of entry into international business. Suggest the appropriate method for banking services firm to enter into African market. 15

UNIT-II

Q.4 Discuss in detail the international product life cycle theory of international trade using suitable examples. 15

Q.5 What is Letter of Credit (LC)? Discuss its significance in international trade. Explain the process of using LC across borders with the help of a diagram. 15

UNIT-III

Q.6 Discuss various components of BOP. How does it affect the developing economy? Why do nations prefer to stabilize it? 15

Q.7 Define Foreign Exchange Market. Explain the working of foreign exchange market using suitable examples. Also discuss its role in international business. 15

UNIT-IV

Q.8 Define multinational enterprise. Discuss various factors that contribute towards formulation and implementation of strategies in MNCs. 15

Q.9 As an expert, develop the branding and promotional strategies for a mobile service operator to diversify its business into South Asian countries. 15
End Semester Examination, May 2014
BBA (GEN) – Sixth Semester
E-COMMERCE (bba-6004)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Choose the correct alternative:
   a) e-business is:
      i) The use of electronic communication for all business processes.
      ii) An organization using electronic media to sell direct to its customers.
      iii) Any electronically mediated communication between an organization and
           its stakeholders.
      iv) An organization using electronic media to purchase from its suppliers.
   b) An example of a capability benefit from creating an e-com website is:
      i) Tracking of number of customers using different parts of site.
      ii) More rapid response to customer enquiries.
      iii) Lower paper costs needed for marketing fewer staff needed in contact
           centre.
      iv) The ability to reach overseas markets without a sales presence.
   c) An example of a control benefit from creating an e-com website is:
      i) The ability to reach overseas markets without a sales presence.
      ii) Tracking of number of customers using different parts of site.
      iii) More rapid response to customer enquiries.
      iv) Lower paper costs needed for marketing and fewer staff needed in contact
           centre.
   d) To the _________, physical location does not matter because the internet allow
      anyone to link to any website, no matter where in the world that sight might be.
      i) Bricks-and-clicks retailer.
      ii) e-tailer.
      iii) Bricks-and-mortar retailer.
      iv) B-to-G business.
      v) Location always matters.
   e) An ATM card is an example of which form of biometric security?
      i) What you know? ii) Who you are?
      iii) What you have? iv) What you can do?
   f) _________ is/are used to pay for micro transactions.
      i) E-cash ii) Digital cash iii) Bank accounts
      iv) Either i) or ii) v) None of the above
   g) A paper signature is believed to be more reliable than a digital signature.
      i) True ii) False
   h) JIT stands for:
      i) Just in time ii) Joint investigation term
      iii) Join in training iv) Just in total
   i) In the digital signature technique, the sender of the message uses _______ to
      create cipher text:
      i) His or her own symmetric key
      ii) His or her own private key
      iii) His or her own public key
      iv) The receiver’s private key

P.T.O.
j) PIN stands for:
   i) Payment investigation number.
   ii) Password identification number.
   iii) Personal identification number.
   iv) Personal identification numeric.

UNIT-I

Q.2 a) Explain different types of e-commerce with respect to vendors and customers. 8
   b) List the advantages and disadvantages of e-commerce. 7

Q.3 a) Differentiate between pure online and bricks-mortar business. 5
   b) Explain the framework and component of e-commerce. 10

UNIT-II

Q.4 a) Briefly explain various electronic payment systems. 10
   b) What are the security requirements for using online e-cash services? 5

Q.5 a) Write about the internet technologies essential and relevant to e-commerce. 8
   b) How is revenue generated through advertisement in e-com? 7

UNIT-III

Q.6 a) Explain how e-commerce can help a manufacturing sector in expanding his business. 10
   b) What is the role of e-com in supply chain management? 5

Q.7 Explain the role and support of e-commerce in the following applications (any three):
   a) Real estate business.
   b) Insurance sector.
   c) Jobs and employment sites.
   d) Travel. 5x3

UNIT-IV

Q.8 Explain the applications of electronic commerce in virtual organisation and vice versa. 15

Q.9 a) What do you mean by dynamic and static virtual organizations? Explain their roles. 8
    b) “Virtual organisation emergence has helped e-commerce”. Elaborate. 7
End Semester Examination, May 2014
BBA (CAM) – First Semester
BUSINESS ECONOMICS (BCAM-102)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q1 is compulsory. All questions carry equal marks.

Q.1 Answer the following questions in one or two sentences:
   a) Define the term demand.
   b) Explain elasticity of demand.
   c) Write any two features of monopoly.
   d) What is a production function?
   e) Show the AR and MR curves in monopolistic market.
      Fill in the bank:
   f) Long run average cost curve is _______ shaped.
   g) Indifference curves must be _______ to the origin.
   h) In consumer equilibrium, a consumer gets maximum _______.
   i) _______ flow of income implies the flow of factor services from household to
      producing sector.

   UNIT-I

Q.2 Discuss briefly the nature and scope of business economics.
   14

Q.3 Discuss the factors which influence elasticity of supply.
   14

   UNIT-II

Q.4 Discuss the various concept cost curves. How do they differ in short run and long run?
   14

Q.5 a) Distinguish between returns to a scale and returns to a factor.
    7
   b) Discuss the relation between AR and MR with elasticity of demand.
    7

   UNIT-III

Q.6 Describe the term: price discrimination. When is it possible and profitable? How price
    is determined under it?
   14
Q.7 Distinguish between perfect and monopolistic competitions. Explain the equilibrium of
    a firm under monopolistic competition.
   14

   UNIT-IV

Q.8 What do you understand by the circular flow of income? Explain with the help of four
    sector model.
   14

Q.9 a) Explain various method to control inflation.
    7
   b) Describe the various instruments of credit control.
    7
End Semester Examination, May 2014
BBA (CAM) – First Semester
BUSINESS STATISTICS (BCAM-103)

Time: 3 hrs
Max Marks: 70
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1
a) Give an example each of discrete and continuous series.
b) Give two uses of index numbers.
c) What do you mean by probability scale?
d) Find mode: 5, 8, 9, 8, 7, 5, 3, 2, 8, and 5.
e) What do you mean by dispersion?
f) Give formula for finding out median for continuous series.
g) What do you mean by average?
h) Define quartile deviation.
i) What do you mean by Decile?
j) Write difference between positive and negative correlation.
k) What do you mean by skewness?
l) Write the maximum value of coefficient of correlation.
m) Write two functions of statistics.
n) What do you mean by symmetric distribution? 1x14

UNIT-I

Q.2
a) Define statistics. What are the limitation and functions of statistics? 7
b) A motor car covered a distance of 50 km four times. The first time at 50 km per hour, the second time at 20 km per hour, the third time at 40 km per hour and the fourth at 25 km per hour. Calculate the average speed of car. 7

Q.3
a) What is standard deviation? Why it is most widely used measure of dispersion? 5
b) From the following data given below, find out which of the two series is more consistant:

<table>
<thead>
<tr>
<th>Series A:</th>
<th>18</th>
<th>16</th>
<th>15</th>
<th>12</th>
<th>10</th>
<th>5</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series B:</td>
<td>10</td>
<td>12</td>
<td>24</td>
<td>32</td>
<td>29</td>
<td>11</td>
<td>17</td>
</tr>
</tbody>
</table>

UNIT-II

Q.4
a) Define regression. Distinguish between correlation and regression. 6
b) Calculate rank correlation coefficient for the data given below:

<table>
<thead>
<tr>
<th>X:</th>
<th>15</th>
<th>20</th>
<th>28</th>
<th>12</th>
<th>40</th>
<th>60</th>
<th>20</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y:</td>
<td>40</td>
<td>30</td>
<td>50</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>30</td>
<td>60</td>
</tr>
</tbody>
</table>

Q.5
a) Define correlation. What are the properties of correlation coefficient? 4
b) Calculate regression equation of x on y and y on x for the data given below:

<table>
<thead>
<tr>
<th>X:</th>
<th>53</th>
<th>36</th>
<th>88</th>
<th>84</th>
<th>86</th>
<th>64</th>
<th>45</th>
<th>48</th>
<th>39</th>
<th>69</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y:</td>
<td>45</td>
<td>43</td>
<td>89</td>
<td>79</td>
<td>84</td>
<td>66</td>
<td>49</td>
<td>48</td>
<td>43</td>
<td>76</td>
</tr>
</tbody>
</table>

P. T. O.
UNIT-III

Q.6  a) Discuss the application of time series in business decisions.
     b) Fit a straight line trend by the method of least squares to the following data:

<table>
<thead>
<tr>
<th>Year:</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production:</td>
<td>80</td>
<td>90</td>
<td>92</td>
<td>83</td>
<td>94</td>
<td>99</td>
<td>92</td>
</tr>
</tbody>
</table>

Q.7  Calculate Fisher’s Ideal Index number for the following data and show that it satisfies time reversal and factor reversal test:

<table>
<thead>
<tr>
<th>Commodity</th>
<th>2010</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>p&lt;sub&gt;0&lt;/sub&gt;</td>
<td>q&lt;sub&gt;0&lt;/sub&gt;</td>
<td>p&lt;sub&gt;1&lt;/sub&gt;</td>
</tr>
<tr>
<td>A</td>
<td>32</td>
<td>16</td>
</tr>
<tr>
<td>B</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>C</td>
<td>70</td>
<td>56</td>
</tr>
<tr>
<td>D</td>
<td>38</td>
<td>38</td>
</tr>
</tbody>
</table>

UNIT-IV

Q.8  a) State the qualities of a good sample.
     b) Use chi square test to know the significance difference in the effect of the drug and sugar pills:

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Helped</th>
<th>Harmed</th>
<th>No effect</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>30</td>
<td>70</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>Sugar Pills</td>
<td>130</td>
<td>40</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>280</td>
<td>70</td>
<td>150</td>
<td>500</td>
</tr>
</tbody>
</table>

Q.9  a) Two dice are thrown simultaneously. Find the probability of getting a sum of 7 or 9.
     b) A bulb producing company finds that 1% of bulbs are defective. Calculate the probability that in a box of 50 bulbs there will be:
     i) No defective bulb.
     ii) At most two defective bulbs. ($e^{-0.5} = 0.6065$).
End Semester Examination, May 2014
BBA (CAM) – First Semester
FINANCIAL ACCOUNTING (BCAM-104)

Time: 3 hrs  Max Marks: 70
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) The book is which transactions are recorded for the first time is called _______.
   b) Recording in journal is made according to the rules of _________ system.
   c) The discount allowed to customer for making prompt payment is called ________
       discount.
   d) Sales book is the book of _________ entry.
   e) A book which is called the book of final entry or the ‘principle book’ is _________.
   f) _________ method of depreciation is also called original cost method or equal
       installment method.
   g) If provision for depreciation account is maintained the assets always appear at
       _________ in ledger A/c.
   h) Error of posting of wrong amount is _________ sided error.

   Write in brief about:
   i) Two objectives of accounting. 2
   j) FIFO. 2
   k) Purchase book. 2

UNIT-I

Q.2 Define accounting. Discuss its functions and types. 14

Q.3 What do you mean by the term ‘Accounting concepts and conventions’? Explain any
three of them. 14

UNIT-II

Q.4 What is a trial balance? Explain the errors, which are disclosed and not disclosed by a
trial balance. 14

Q.5 Enter the following transactions in journal and prepare a cash account 2013.
   July 1 Business started with capital of Rs. 5,00,000 in cash.
   July 3 Purchased goods from Ramesh in cash Rs. 50,000.
   July 6 Purchased machinery Rs. 40,000 from Sohan and installation charges paid
       Rs. 3,000.
   July 8 Sold goods to Suresh M.R.P. Rs. 20,000 trade discount @ 10%.
   July 10 Suresh paid Rs. 10,000.
   July 12 Paid for trade expenses Rs. 5,000.
   July 16 Suresh paid Rs. 6,000 in full settlement of his account.
   July 20 Draw for personal use cash Rs. 15,000 and goods Rs. 2000. 14

UNIT-III

Q.6 Write notes on following explaining their treatment in final accounts:
   a) Earned income.  b) Provision for discount on debtors.
   c) Goods destroyed by fire.  d) Prepaid expenses. 14

P. T. O.
Q.7 The following balances are extracted from the books of ABC & Sons as on 31\textsuperscript{st}, December 2012. Prepare trading, profit and loss A/c and balance sheet from their balances:

<table>
<thead>
<tr>
<th></th>
<th>Dr. Rs.</th>
<th>Cr. Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening stock</td>
<td>12,000</td>
<td></td>
</tr>
<tr>
<td>Purchases</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td></td>
<td>86,000</td>
</tr>
<tr>
<td>Discount</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Sales return</td>
<td>5,800</td>
<td></td>
</tr>
<tr>
<td>Buildings</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>Debtors</td>
<td>16,000</td>
<td></td>
</tr>
<tr>
<td>Salaries</td>
<td>2,400</td>
<td></td>
</tr>
<tr>
<td>Office expenses</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>Wages</td>
<td>10,000</td>
<td></td>
</tr>
<tr>
<td>Purchase return</td>
<td></td>
<td>4,000</td>
</tr>
<tr>
<td>Interest</td>
<td></td>
<td>800</td>
</tr>
<tr>
<td>Travelling expenses</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Fine Insurance Premium</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Machinery</td>
<td>20,000</td>
<td></td>
</tr>
<tr>
<td>Carriage on purchases</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Commission</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Cash in hand</td>
<td>2300</td>
<td></td>
</tr>
<tr>
<td>Rent and taxes</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td></td>
<td>52,000</td>
</tr>
<tr>
<td>Creditors</td>
<td></td>
<td>10,800</td>
</tr>
</tbody>
</table>

\[ \text{Total: } 1,53,800 \text{ and } 1,53,800 \]

Adjustments:
\begin{enumerate}
\item Closing stock was Rs. 16,000.
\item Depreciate building @ 5%.
\item Prepaid insurance Rs. 200.
\item Wages of Rs. 2,000 are outstanding.
\end{enumerate}

\textit{UNIT-IV}

Q.8 On 1\textsuperscript{st} April 1996, Geeta & Co. Purchased a plant for Rs. 1,50,000 and paid Rs. 10,000 as freight on its carriage depreciation was provided @ 10% p.a. on the written down value method on this plant. On July 1, 1999 the plant was sold for Rs. 80,000 and a new plant was purchased for Rs. 2,00,000. Prepare plant and depreciation A/c from 1990 to 1994.

Q.9 \begin{enumerate}
\item Differentiate clearly between receipts and payment account and income and Expenditure account.
\item Discuss the accounting treatment of subscription and purchase of a non-profit organization.
\end{enumerate}
End Semester Examination, May 2014  
BBA (CAM) – Second Semester  
BUSINESS ENVIRONMENT (BCAM-201)

Time: 3 hrs  
Max Marks: 70  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following questions:  
a) What do you understand by an economic system?  
b) Define environmental scanning.  
c) Write any two problems faced by the private sector in India.  
d) Explain the concept of mixed economy.  
e) Write any two elements of business environment.  
f) What is banking sector reform?  
g) Define industrial licensing.  
h) Write one objective of NBFC.  
i) Differentiate between balance of payment and balance of trade.  
j) Explain the need of foreign capital for India.  
k) Write full form of NABARD.  
l) What are the two objectives of social audit?  
m) Describe any two roles of SSI.  
n) Write any two functions of Globalization.  
1x14

UNIT-I

Q.2 Define the term business environment. Describe the significance of business environment.  
14

Q.3 What do you mean by social responsibility? Discuss the social responsibilities of business towards government and community.  
14

UNIT-II

Q.4 Define industrial sickness. Explain internal and external causes of industrial sickness.  
14

14

UNIT-III

Q.6 What do you mean by development financial institutions? Discuss the importance and operational activities of Development Bank.  
14

Q.7 How stock exchanges in India are regulated? Discuss in brief.  
14

UNIT-IV

Q.8 What is World Trade Organization? Explain the advantages and disadvantages of WTO for India.  
14

Q.9 Write notes on the following:  
a) Challenges before multinational corporations.  
b) Achievement and failure of IMF.  
7x2
End Semester Examination, May 2014
BBA (CAM) – Second Semester
HUMAN RESOURCE MANAGEMENT (BCAM-202)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer briefly:
a) Distinguish between recruitment and selection.
b) What is meant by TQM?
c) What do you mean by human factor?
d) Enlist measures for the job analysis process.
e) What are the causes of employees’ grievances?
f) What is meant by incentive payment?
g) Explain the term ‘safety campaign’.

UNIT-I

2x7

Q.2 What is the role of human resource department? Is this an important subsystem? Also critically examine contemporary issues related to present day human resource management.

14

Q.3 Write short notes on:
a) Worker’s participation in management.
b) Causes of promotions and transfer.

7x2

UNIT-II

Q.4 What is wage and salary administration? Discuss the systems of wage payments.

14

Q.5 Explain the objectives and significance of job analysis. Critically evaluate various methods of job analysis.

14

UNIT-III

Q.6 How an employer is responsible for providing proper working conditions to the employees? What are the measures an employer can use to do so?

14

Q.7 How do fatigue and boredom affect the employees’ health? Is there any difference between these two terms?

14

UNIT-IV

Q.8 Define the term ‘trade union’. Explain the role of trade unions in the grievance settlement machinery.

14

Q.9 Briefly discuss the following:
a) Industrial disputes
b) Collective bargaining.

7x2
End Semester Examination, May 2014
BBA (CAM) – Second Semester
MATHEMATICS FOR MANAGERS (BCAM-203)

Time: 3 hrs
Max Marks: 70
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) What do you mean by a universal set?
b) If \( B = \{2, 3, 5, 7\} \) and \( A = \{1, 2, 3, 4\} \), find \( A-B \) and \( B-A \).
c) Find the value of \( (\log 2 + \log 5 + \log 10) \).
d) Find 30th term of the series: 8, 16, 32, 64, ..........
e) \[ A = \begin{bmatrix} x & 2 + y \\ z & 3 \end{bmatrix}, \quad B = \begin{bmatrix} 5 \\ 20 \end{bmatrix} \]; then find the matrix \( A+B \).
f) Differentiate \( 7^x \) w.r.t. \( x \).
g) What do you mean by symmetrical difference between two sets? \( 2 \times 7 \)

UNIT-I

Q.2 a) Find the compound interest on \( ₹2000/- \) for three years at 10% per annum. Also find the difference between compound interest and simple interest for that period. \( 7 \)
b) The difference between compound interest and simple interest of a certain sum of money is \( ₹25 \) at 20% p.a. for 2 years. Find the principal. \( 7 \)

Q.3 a) Determine the half yearly payments for a 10 years term for an annuity due having future value of \( ₹100000/- \) if the monty is worth 6% p.a. compounded semi-annually. (Use log table) \( 8 \)
b) Find the compound interest on \( ₹1000/- \) at the rate of 8% per annum for \( \frac{1}{2} \) years when interest is compounded half yearly. \( 6 \)

UNIT-II

Q.4 a) Sum the series \( 7 + 77 + 777 + \ldots \) to \( n \) terms. \( 7 \)
b) If \( n \) AMs are inserted between 5 and 86, such that the ratio of 1st and the last mean is as 2:11; find \( n \). \( 7 \)

Q.5 a) Four numbers are in A.P. Their sum is 16 and the sum of their squares is 84. Find the numbers. \( 6 \)
b) If \( a^x = b^y = c^z = d^w \) and \( ab = cd \), show that \( \frac{1}{x} + \frac{1}{y} + \frac{1}{z} + \frac{1}{w} = 0 \). \( 8 \)

UNIT-III

Q.6 a) If \( A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix} \), shows that \( A^3 - 23A - 40I = 0 \). \( 6 \)

P. T. O.
b) Solve the following system of linear equations:
\[ \begin{align*}
2x + 3y + z &= 9 \\
4x + y &= 7 \\
x - 3y - 7z &= 6
\end{align*} \]

Q.7 a) In a survey of 100 persons, it was found that 28 read magazine A, 30 read magazine B, 42 read magazine C, 8 read magazines A and B, 10 read magazine A and C, 5 read magazines B and C and 3 read all the three magazines. Find:

i) How many read none of the three magazines?

ii) How many read magazine C only?

b) If \( A = \{1, 2, 3, 4\}, B = \{4, 5, 6, 7\}, C = \{7, 8, 9, 10, 11\}; \) then find:

i) \( B - (A - B) \)

ii) \( (A \cup B) - (C \cap A) \)

UNIT-IV

Q.8 a) If \( y = \sqrt{1 + x^2} \); shows that \( \frac{dy}{dx} = \frac{5x^4}{2y} \).

b) Evaluate: \( \int \frac{1}{x \log x} \, dx \).

5

c) Evaluate: \( \lim_{x \to 0} \frac{\sqrt{1 + x} - \sqrt{1 - x}}{2x} \).

Q.9 a) If \( y = 3x^3 + 5, \) \( V = 3u + 1 \) and \( u = 9x + 1 \), find \( \frac{dy}{dx} \) by using chain rule.

b) If \( f(x) = \begin{cases} 
5x - 4, & 0 < x \leq 1 \\
4x^3 - 3x, & 1 < x < 2
\end{cases} \) show that \( \lim_{x \to 1} f(x) \) exists.
End Semester Examination, May 2014
BBA (CAM) – Third Semester
ORGANIZATIONAL BEHAVIOUR (BCAM-301)

Time: 3 hrs

Max Marks: 70

No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Name the psychologist who were involved in Hawthorne experiment.  
           b) What is behavioral approach to management?  
           c) Enumerate the leadership role in group decision-making.  
           d) Differentiate between perception and attribution.  
           e) What is Laissez-faire leadership?  
           f) What are the different sources of job dissatisfaction?  
           g) Describe some of the inherited characteristics of behaviour.  2x7

UNIT-I

Q.2 Trace the emergence of organizational behavior as an important field of study. 14

Q.3 a) What role does perception play in the general field of organizational behavior?  
           b) What are some of the factors that become barriers to perceptual accuracy?  7

UNIT-II

Q.4 a) Explain some of the norms that the workers are expected to abide by.  
           b) Write an essay on the concept of group cohesiveness.  7

Q.5 Why does intergroup conflict arise? What are its consequences? How would you  
           prevent such conflict?  14

UNIT-III

Q.6 What are the reasons for resistance to change? What can the management do to  
           overcome such resistance?  14

Q.7 Discuss the reasons of various types of conflict in an organization Suggest  
           measures to resolve conflict.  14

UNIT-IV

Q.8 Discuss the salient features of Maslow’s hierarchy of needs. How does Maslow’s  
           theory fit into McGregor’s theory Y?  14

Q.9 a) Explain in detail the personal characteristics of leaders. Are some of these  
           characteristics inherited?  
           b) What is crossed and complimentary transaction in transactional analysis?  7


End Semester Examination, May 2014
BBA (CAM) – Third Semester
MIS AND DBMS (BCAM-304)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks
a) An MIS is an integrated, user machine system for providing ______ to support operations, management and decision making function.

b) _______ is used to authenticate the identity of the sender of a message and possibly to ensure that the original content of the message or document that has been sent is unchanged.

c) _______ information is needed for long range planning and directing the course business should take.

d) CAM stands for ________.

e) BPR is ________.

f) ______ dependency is used in BCNF in normalization.

g) Database languages are ______ and ______.

h) Information system is a set of people, procedures and ______ that collects, transforms and disseminates information in an organization.

i) ______ gave the concept of BCNF.

j) ______ model is based on graph structure.

UNIT-I

Q.2 What is management information system? How does it relate to different levels of information requirements in an organization?

10

Q.3 Outline a suitable process whereby management could identity strategic DSS implementations for their company.

10

UNIT-II

Q.4 How does information system help in strategic planning? Briefly explain with an example.

10

Q.5 Briefly discuss:
   a) Quality control
   b) Electronic payment system

UNIT-III

Q.6 Discuss the purpose of database system. What are the drawbacks of normal file processing system? How does database system overcome the deficiencies of file processing system?

10

Q.7 Draw the E-R diagram of student result management system. State the assumptions clearly.

10

UNIT-IV

Q.8 What do you understand by functional dependency? Discuss the concept of functional dependency with the help of an example.

10

Q.9 Discuss the object oriented data model with its merits and demerits.

10
End Semester Examination, May 2014
BBA (CAM) – Third Semester
MULTIMEDIA TECHNOLOGY (BCAM-305)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) HDTV stands for ________.
   b) Multimedia is a combination of ________, ________, ________ and ________.
   c) ________ blends the colors along the edges of the letters.
   d) ________ helps in adjusting the spacing between characters.
   e) DPI stands for ________.
   f) ________ is the branch of physics that studies sound.
   g) MPEG is an acronym for ________.
   h) DVI stands for ________.
   i) Animation is possible because of a biological phenomenon known as ________.
   j) ________ is an action that requires calculating the number of frames between key frames.

UNIT-I

Q.2 What is multimedia? Explain the various components of multimedia.

Q.3 Explain the authoring tools used in multimedia. Also discuss the various applications of multimedia used in today's life.

UNIT-II

Q.4 Differentiate between the following:
   a) Serif and Sans Serif text
   b) Landscape and portrait orientation

Q.5 Explain the concept of quantizing and clipping in digital audio. Also discuss how editing is done for digital recordings.

UNIT-III

Q.6 Explain bitmaps and vector graphics.

Q.7 Write short notes on the following:
   a) Kinematics in multimedia
   b) DVI

UNIT-IV

Q.8 Discuss the steps of making a multimedia project.

Q.9 Explain how you collect the content and talent for a multimedia project.
End Semester Examination, May 2014
BBA (CAM) – Fourth Semester
BUSINESS POLICY AND STRATEGIC MANAGEMENT (BCAM-401)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following briefly:
   a) What is strategic planning?
   b) Differentiate between market penetration and market development.
   c) Specify the conditions under which retrenchment strategy is adopted.
   d) What is meant by equity strategic alliance?
   e) What is strategic decision making?
   f) Define turnaround strategies.
   g) What is environment threat and opportunity profile? 2x7

UNIT-I

Q.2 a) Briefly explain the steps involved in the process of strategic management. 7
   b) Discuss various characteristics of strategic decisions and issues involved in strategic decision making process. 7

Q.3 a) What are the functions of business policy? 7
   b) Why has strategic management become so important today? 7

UNIT-II

Q.4 a) Write a short note on Role of Chief Executive Officer (CEO) in formulation of objectives. 7
   b) What are the various areas where a company would generally like to set its objectives? 7

Q.5 “Objectives of a corporate organization can be of different types”. Elucidate. 14

UNIT-III

Q.6 “A Growth strategy is one that an enterprise pursues when its level of objectives is upward in a significant increment”. Discuss. 14

Q.7 Why is environmental analysis required for a company? What does a company draw from the environment? 14

UNIT-IV

Q.8 What is strategic evaluation? Why is strategy evaluation important? 14

Q.9 a) What role does leadership play in organizational structures? 7
    b) Write a short note on case study. 7
End Semester Examination, May 2014
BBA (CAM) – Fourth Semester
MANAGEMENT AND COST ACCOUNTING (BCAM-402)

Time: 3 hrs  Max Marks: 70
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) Flexible budget recognizes the difference between _________ and _________ costs.
   b) When sales increase from Rs. 40,000/- to Rs. 60,000/- and profit increase by Rs. 5,000/- then the P/V ratio is ________.
   c) The difference between the actual sales and sales proceeds at break-even point is known as ________.
   d) Management accounting is to assist the ________ in performing various functions. 1x5

State true or false:
   e) Standard cost is also known as predetermined cost of production. 
   f) Proper reporting is an essential element in budgeting control.
   g) The B.E.P. is calculated after adding the profit to fixed cost. 1x3

Answer the following questions in one or two sentences:
   h) Define the term break-even point.
   i) Write any two objectives of management accounting.
   j) Explain the concept social accounting. 2x3

UNIT-I

Q.2 Define management accounting. Discuss its objectives and scope. Are there any limitations of management accounting? 14

Q.3 a) Distinguish between financial and management accounting.
    b) Discuss the essentials for the success of management accounting. 8

UNIT-II

Q.4 The budget income statements of ABC Ltd. during two periods were as follows:

<table>
<thead>
<tr>
<th></th>
<th>Period I (Rs.)</th>
<th>Period II (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total cost</td>
<td>4,50,000/-</td>
<td>6,50,000/-</td>
</tr>
<tr>
<td>Profit</td>
<td>50,000/-</td>
<td>1,00,000/-</td>
</tr>
</tbody>
</table>

Calculate:
   a) Profit volume ratio [P/V ratio].
   b) Break even sales.
   c) Sales required to earn a profit of Rs. 1,25,000/-. 14
   d) Profit earned when sales are Rs. 3,50,000/-

Q.5 a) Distinguish between marginal costing and absorption costing.
    b) State the classification of cost. 7

UNIT-III

Q.6 a) State the main difference among budget, budgeting and budgetary control. 7
    b) Distinguish between a fixed budget and a flexible budget. 7

P. T. O.
Q.7  For production of 10,000 electrical automatic fans, the following are budgeted expenses:

<table>
<thead>
<tr>
<th></th>
<th>Per unit (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct material</td>
<td>60/-</td>
</tr>
<tr>
<td>Direct labour</td>
<td>30/-</td>
</tr>
<tr>
<td>Variable overheads</td>
<td>25/-</td>
</tr>
<tr>
<td>Fixed overheads [Rs. 1,50,000/-]</td>
<td>15/-</td>
</tr>
<tr>
<td>Variable expenses</td>
<td>5/-</td>
</tr>
<tr>
<td>Selling expenses [10% fixed]</td>
<td>15/-</td>
</tr>
<tr>
<td>Administration expenses [Rs. 50,000/- fixed]</td>
<td>5/-</td>
</tr>
<tr>
<td>Distribution expenses [20% fixed]</td>
<td>5/-</td>
</tr>
<tr>
<td>Total cost of sales</td>
<td>160 per unit</td>
</tr>
</tbody>
</table>

Prepare a budget for production of 6,000, 7,000 and 8,000 fans showing distinctly per unit cost and total cost.

UNIT-IV

Q.8  Write short notes on:
  a) Responsibility accounting.  
  b) Social accounting.

Q.9  How does standard costing differ from budgeting control? Discuss the process of investigating all material variances. [With imaginary figure]
End Semester Examination, May 2014
BBA (CAM) – Fourth Semester
QUANTITATIVE APPLICATIONS TO MANAGERIAL DECISION MAKING
(BCAM-403)

Time: 3 hrs
Max Marks: 70
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) The objective of a transportation problem is to ________ the transportation cost.
   b) There is no saddle point, if ________.
   c) Formula for finding opportunity cost is ________.
   d) The requirements of an LP problem are objective functions, ________ and
      non-negative restrictions.
   Short answer type questions:
   e) What is degeneracy in transportation problem?
   f) Define prohibited routes in assignment problem.
   g) Define saddle point in game theory. 2x7

Q.2 a) Use graphical to solve the given LP problem:
   Maximize \[ Z = 80x_1 + 120x_2 \]
   Subjected to
   \[ x_1 + x_2 \leq 9 \]
   \[ 0x_1 + x_2 \geq 3 \]
   \[ x_1 + 0x_2 \geq 2 \]
   \[ 20x_1 + 50x_2 \leq 360 \text{ and} \]
   \[ x_1, x_2 \geq 0 \]
   b) State the basic assumptions of linear programming. 10

Q.3 a) A small scale manufacturer employs 10 semi-skilled men and 5 skilled men. He
   makes an article in two quantities; \(A_1\) model and \(A_2\) model. The making of \(A_1\)
   model requires 2 hours of work by a semi-skilled and skilled worker each. \(A_2\)
   model requires 3 hours of work by semi-skilled and one hour of work by skilled
   worker. As per workers union no man can work for more than 8 hours/per day.
   Profit for \(A_1\) and \(A_2\) model are Rs. 8/- and Rs. 6/- respectively. Formulate the
   problem (Solution is not required). 4
   b) State the limitations of graphical method. 5

UNIT-II

Q.4 Solve the following transportation problem by using (a) North West corner rule
   (b) least cost entry method and (c)Vogel's approximation method:

<table>
<thead>
<tr>
<th>Destination</th>
<th>D_1</th>
<th>D_2</th>
<th>D_3</th>
<th>D_4</th>
<th>Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>S_1</td>
<td>21</td>
<td>16</td>
<td>15</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Supply</td>
<td>17</td>
<td>18</td>
<td>14</td>
<td>23</td>
<td>13</td>
</tr>
<tr>
<td>S_2</td>
<td>32</td>
<td>27</td>
<td>18</td>
<td>41</td>
<td>19</td>
</tr>
<tr>
<td>Demand</td>
<td>6</td>
<td>10</td>
<td>12</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Comment on the answer. 10
Q.5 Solve the following problem using simplex method:
Maximize \[ Z = 3x_1 + 5x_2 + 4x_3 \]
Subjected to
\[ 2x_1 + 3x_2 + 0x_3 \leq 8; \]
\[ 3x_1 + 2x_2 + 4x_3 \leq 15 \]
\[ 0x_1 + 2x_2 + 5x_3 \leq 10 \text{ and} \]
\[ x_1, x_2, x_3 \geq 0 \]

UNIT-III

Q.6 a) Solve the following assignment problem:

<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>85</td>
<td>75</td>
<td>65</td>
<td>125</td>
<td>75</td>
</tr>
<tr>
<td>B</td>
<td>90</td>
<td>78</td>
<td>66</td>
<td>132</td>
<td>78</td>
</tr>
<tr>
<td>C</td>
<td>75</td>
<td>66</td>
<td>57</td>
<td>114</td>
<td>69</td>
</tr>
<tr>
<td>D</td>
<td>80</td>
<td>72</td>
<td>60</td>
<td>120</td>
<td>72</td>
</tr>
<tr>
<td>E</td>
<td>76</td>
<td>64</td>
<td>56</td>
<td>112</td>
<td>68</td>
</tr>
</tbody>
</table>

b) Explain the concept of multiple optimal solutions in assignment problem.

Q.7 Solve the following travelling salesman problem:

<table>
<thead>
<tr>
<th></th>
<th>C_1</th>
<th>C_2</th>
<th>C_3</th>
<th>C_4</th>
<th>C_5</th>
</tr>
</thead>
<tbody>
<tr>
<td>To</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C_1</td>
<td>\infty</td>
<td>10</td>
<td>13</td>
<td>11</td>
<td>\infty</td>
</tr>
<tr>
<td>C_2</td>
<td>10</td>
<td>\infty</td>
<td>12</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>From</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C_3</td>
<td>14</td>
<td>13</td>
<td>\infty</td>
<td>13</td>
<td>11</td>
</tr>
<tr>
<td>C_4</td>
<td>11</td>
<td>10</td>
<td>14</td>
<td>\infty</td>
<td>10</td>
</tr>
<tr>
<td>C_5</td>
<td>12</td>
<td>11</td>
<td>12</td>
<td>10</td>
<td>\infty</td>
</tr>
</tbody>
</table>

UNIT-IV

Q.8 Customers arrive at a transport company being managed by single clerk at a rate of 8 per hour and clerk can service 12 customers on an average per hour. After stating your assumptions, find the following:

a) Average number of customers in the system.

b) Average number of customers in the queue.

c) Average waiting time of customers in the queue.

d) Average waiting time of customers in the system.

Q.9 Write short notes on:

a) Pure strategy in game theory.

b) Service mechanism in queuing theory.

c) Dominance rule.
End Semester Examination, May 2014
BBA (CAM) – Fourth Semester
RELATIONAL DATABASE MANAGEMENT SYSTEMS (BCAM-404)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following questions briefly:
   a) Define degree and cardinality with a suitable example.
   b) What do you mean by generalization in ER diagram?
   c) What is the importance of view? Write a proper syntax to create the view in SQL.
   d) What are the advantages of functions in PL/SQL?
   e) How we can display the output in PL/SQL? 2x5

UNIT-I

Q.2 Explain network model in detail with its advantages and disadvantages. 10

Q.3 What do data independence and its types? How data independence is achieved? 10

UNIT-II

Q.4 Develop an ER diagram for hospital management system. 10

Q.5 What are the different symbols used for designing an ER diagram and explain their usage? 10

UNIT-III

Q.6 Explain the following commands with proper syntax:
   a) GRANT
   b) REVOKE
   c) TRUNCATE
   d) COMMIT 10

Q.7 What are needs of Oracle functions? Explain any ten Oracle functions with proper syntax and example. 10

UNIT-IV

Q.8 What are the problems in SQL and how they are solved by PL/SQL? Explain the generic PL/SQL block with proper diagram. 10

Q.9 What are different types of exceptions? Explain each with an example. 10
End Semester Examination, May 2014
BBA (CAM) – Fourth Semester
SYSTEM ANALYSIS AND DESIGN (BCAM-405)

Time: 3 hrs  Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) When developers start to acquire equipment or software it is:
   i) Development stage.  ii) Design stage
   iii) Implementation stage  iv) Need analysis stage
b) The new system is implemented one part at a time. It is:
   i) Parallel implementation  ii) Direct implementation
   iii) Phase-in implementation  iv) Pilot implementation
c) The team members start with the big picture and move to the details in
   i) Top-down design  ii) Bottom-up design
   iii) Object oriented system analysis.  iv) Rapid application design
d) Teams use working models to explore the look and feel of screens with users. It is
   i) Demo  ii) Prototype
   iii) Object  iv) Design
e) Which step of SDLC performs cost/benefit analysis?
   i) Feasibility study  ii) Analysis
   iii) Design  iv) None of the above

f) Fill in the blanks:
   i) A form is also called _________.
   ii) DML stands for _________.
   iii) ________ and _________ are two types of testing
   iv) In CRT screen design, CRT stands for _________.
   v) _________ is a quality standard for service industry.

1x5

Q.2  
What is SDLC? Compare the waterfall and prototype model of system development life cycle. 14

Q.3  
Describe the following:
   a) ER Model  b) Case tools

UNIT-II

7x2

Q.4  
What is feasibility study? Explain the types of feasibility. 14

Q.5  
Explain decision tree and decision table with a suitable example. 14

UNIT-III

Q.6  
What is modularization? Discuss the importance of modularization in system design. 14

Q.7  
What is a form? What are its various types? Enumerate the requirement of designing a good form. 14

UNIT-IV

Q.8  
Explain system maintenance. Illustrate different ways in which maintenance of system is done. 14

Q.9  
Define system testing. Differentiate between unit testing and integration testing. 14
End Semester Examination, May 2014
BBA (CAM) – Fifth Semester
PUBLIC RELATIONS AND APPLIED COMMUNICATION (BCAM-501)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) What are the different elements of the public opinion process?
   b) Describe the importance of broadcast media as a public relation tool.
   c) What do you mean by celebrity endorsement?
   d) Name the organizations, who are doing public relation for the Central Government of India.
   e) Explain the advantages of public relations.
   f) Name the agencies who came under the Ministry of Information and Broadcasting of India.
   g) What is media relation?

UNIT-I
Q.2 Write an essay on the development of public relations in India.
Q.3 What is internal and external communication in public relations?

UNIT-II
Q.4 a) Describe the utility of advertising and other media in public relations.
   b) Explain in detail about house journal.

Q.5 Explain corporate personality.

UNIT-III
Q.6 a) What is public opinion?
   b) Explain how the public opinion is formed.
Q.7 Explain the major elements which are involved in the change of public opinion.

UNIT-IV
Q.8 Explain the concept of public relations in the government sector in detail.
Q.9 Write short notes on:
   a) Lobbying.
   b) Seminar.
End Semester Examination, May 2014
BBA (CAM) – Fifth Semester
MERCANTILE LAW (BCAM-502)

Time: 3 hrs

Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) State whether the following statements are True or False:
   i) All void agreements are illegal.
   ii) A threat to commit suicide amounts to coercion.
   iii) A specific guarantee cannot be revoked.
   iv) It is a prime duty of every subscriber to retain control of the private key in his
digital signature certificate.
   v) Ratification is tantamount to prior authority. 1x5

b) Fill in the blanks:
   i) A contract by an idiot is _______.
   ii) A ______ offer may be accepted by any one.
   iii) Anticipatory breach of a contract takes place _________.
   iv) A ________ is a person employed by, and acting under the control of the
original agent in the business of the agency.
   v) Tempering with computer source documents shall be punishable with ______. 1x5

c) Answer the following question in brief:
   i) What is meant by asymmetric cryptic system?
   ii) Define a surety. 2x2

UNIT-I

Q.2 What is nature of the Law of Contract? Also explain the essentials of a valid contract. 14

Q.3 a) What is meant by suing on quantum meruit?
   b) "No consideration, no contract". Explain. 7x2

UNIT-II

Q.4 Briefly explain the duties of an agent towards his principal. What are his rights against
the principal? 14

Q.5 What is a continuing guarantee? When and how is it revoked? 14

UNIT-III

Q.6 "A seller cannot convey a better title to the buyer than he himself has". Discuss this
rule of law and point out the exceptions. 14

Q.7 Explain briefly the implied conditions and warranties in a contract of sale of goods. 14

UNIT-IV

Q.8 a) Write a note on 'electronic signature certificate'.
   b) How is certifying authority appointed? 7x2

Q.9 a) Explain the provision of I.T. Act, 2000 in regards to electronic records.
   b) Explain the term 'subscriber' and his duties under the I.T. Act, 2000. 7x2
End Semester Examination, May 2014  
BBA (CAM) – Fifth Semester  
CONSUMER BEHAVIOUR (BCAM-503)

Time: 3 hrs  
Max Marks:  70  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following in briefly:
   a) What is consumer need hierarchy?
   b) ______ is the drawing force within individual that impels them to action.
   c) Explain the term self concept.
   d) Write two types of memory.
   e) Define subculture.
   f) Write a difference between routine decisions behaviour and limited decision making.
   g) What are the factors influencing buying process?
   h) Lifestyle implies a central ______.
   i) Write the traits of personality.
   j) Write two importance of theories of learning.
   k) What is family life cycle?
   l) People are divided in two classes: ______ and ______. 1x12

State whether True or False:
   m) Consumer preferences are changing and becoming highly diversified. 1x2
   n) Consumer behaviour refers to the buying behaviour of ultimate consumers.

UNIT-I

Q.2 Define a consumer. Discuss in detail the significance and applications of consumer behaviour. 14

Q.3 Write short notes on:
   a) Factors affecting life style and psycho-graphics. 14
   b) Model of consumer behaviour.

UNIT-II

Q.4 Discuss in detail the environmental factors influencing the consumer behaviour. 14

Q.5 What is a reference group? Why it is influence more important than that of other groups? 14

UNIT-III

Q.6 Define personality. Discuss in detail the personality traits that are important guide of consumer behaviour. 14

Q.7 Write short notes on:
   a) Long term and short term memory. 7x2
   b) Impact of AIO model of attitude.

UNIT-IV

Q.8 Explain the process of consumer buying decisions. “Does search and evaluation of decision process is effective”. Substantiate your answer. 14

Q.9 Write notes on:
   a) Impact of pre research and post-research behavior. 7x2
   b) Why study problem recognition?
End Semester Examination, May 2014  
BBA (CAM) – Fifth Semester  
PROGRAMMING IN VISUAL BASIC (BCAM-504)

Time: 3 hrs  
Max Marks: 50  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blank (ten parts):
   a) MDI stands for ________.
   b) ________ is an example of decision making statements in VB.
   c) Two types of arrays available in VB are ________ and ________.
   d) Combo Box is used to represent ________ of items.
   e) Local window is used to ________.
   f) In MDI the maximum numbers of parent forms are ________.
   g) The scope of the variable declared in a module is ________.
   h) ________ is one of the important properties of timer control.
   i) ________ is used to create a menu on a VB form.
   j) ________ is an example of container control.

UNIT-I  

Q.2 Why the working environment in VB is often referred to as the integrated development environment?  

Q.3 a) What do you mean by event driven programming language?  
      b) Explain briefly the various decision making statements available in VB.

UNIT-II  

Q.4 Differentiate between the following:
   a) Option button and Check Box.
   b) Form and Frame.

Q.5 Explain the use of module in VB with the help of an example.

UNIT-III  

Q.6 What is an array? Explain the types of array available in VB.

Q.7 Differentiate between the following:
   a) Procedure and Function.
   b) SDI form and MDI form.

UNIT-IV  

Q.8 Explain the steps required to connect a label control to a field in a table in MS Access database.

Q.9 Explain the use of the following control in VB:
   a) Shape Control.
   b) Picture Box.
End Semester Examination, May 2014
BBA (CAM) – Fifth Semester
SOFTWARE ENGINEERING (BCAM-505)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:
   a) If the requirements are frequently changing, ________ model is to be selected.
   b) Effort is measured in terms of ________.
   c) Projects risk factor is considered in ________ model.
   d) DFD stands for ________.
   e) The relationship of data elements in a module is called ________.
   f) The worst type of cohesion is ________.
   g) Vocabulary of a program is defined as ________.
   h) ________ is the International standard for size measure.
   i) Beta testing is carried out by ________.
   j) Functional testing is also known as ________.

UNIT-I

Q.2 a) Write down the major characteristics of a software. Illustrate with a diagram that software does not wear out.
   b) Differentiate between the following:
      i) Deliverables and milestones.
      ii) Product and process.

Q.3 Compare waterfall model with spiral model of software development in relation to their merits and demerits.

UNIT-II

Q.4 Explain the following with examples:
   a) Data flow diagram.
   b) Data dictionary.

Q.5 a) What are various categories of software metrics? Discuss with the help of a suitable example.
   b) Discuss project scheduling and also explain the main features of work breakdown structure.

UNIT-III

Q.6 Define module coupling and explain different types of couplings.

Q.7 What do you understand by software design methods and also discuss the importance of software design methods?

UNIT-IV

Q.8 Explain the following terms:
   a) Fault
   b) Failure
   c) Bug
   d) Mistake

Q.9 a) What do you mean by code inspections? Discuss its benefits.
   b) What are the objectives of software testing? Explain.
End Semester Examination, May 2014
BBA (CAM) – Sixth Semester
ENTREPRENEURSHIP DEVELOPMENT (BCAM-601)

Time: 3 hrs

Max Marks: 70

No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following questions briefly/as per the direction given:
a) Bill Gates of Microsoft is considered as the most successful entrepreneur. Write about his three qualities which helped him to achieve this position.
b) Write three qualities of an entrepreneur.
c) Differentiate between entrepreneur and manager.
d) Define innovation.
e) What is the key feature of a well written business plan?
f) Define ethics.
g) Unemployment could be reduced by introducing the culture of entrepreneurship in India.
h) What are the business opportunities?
i) Write full form of EDP.
j) Write steps (without explanation) for preparing business plan.
k) Write names of three successful entrepreneurs along with the names of their organizations.

State whether True / False:
l) Decision making and risk taking by entrepreneur factors for the success and failure of small scale industry.
m) An entrepreneurial new venture is one that values innovation and willing to experiment in order to gain advantage over its competitors.
n) Small scale industry is foundation of Indian economy. 1x14

UNIT-I

Q.2 Discuss the role of entrepreneurship for the industrial development and sustainable economical growth of India. 14

Q.3 Small business units are the backbone of industry. Discuss the various problems being faced by small business units in India. 14

UNIT-II

Q.4 What is entrepreneurship environment? Explain the factors that are favourable for the growth of entrepreneurship. 14

Q.5 Discuss the types of skills required in entrepreneurship. 14

UNIT-III

Q.6 In the first half of the 20th century when training tools were not available, it was considered by economists and academicians that entrepreneurs are born and can’t be developed. Write about your views in favor or against the statement with appropriate examples. 14

P. T. O.
Q.7 Entrepreneurs play important role for the overall growth of corporate sector. Discuss various qualities of an entrepreneur which make him/her successful in business venture.

UNIT-IV

Q.8 What is the need of conducting entrepreneurship development programmes? Discuss the role of National Institute for Entrepreneurship and Small Business Development (NIESBUD) for conducting such programmes.

Q.9 Write notes on any two:
   a) Steps of setting new enterprise.
   b) Scanning business environment
   c) Factors motivate the growth of entrepreneurship.
   d) Social responsibility of an entrepreneur.
End Semester Examination, May 2014
BBA (CAM) – Sixth Semester
INTERNATIONAL BUSINESS (BCAM-602)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. All questions carry equal marks.

UNIT-I

Q.1 a) How does international business differ from domestic business? Why should a firm engage in international business? 7
   b) Discuss various factors that affect the business of an oil company trading in India. 7

Q.2 Discuss in detail the factor endowment theory of international trade using suitable examples. 14

UNIT-II

Q.3 How does foreign direct investment (FDI) differ from portfolio investment? Discuss various factors that contribute towards attracting FDI in developing countries. 14

Q.4 Define Multi National Corporations (MNC). How does an MNC help the developing economies? Also there any ill effect of MNC. Explain using examples. 14

UNIT-III

Q.5 What is EXIM policy? Discuss the role of EXIM policy as a tool for regulating trade in an economy. 14

Q.6 Differentiate between EOU and EPZ. Discuss the role of these organizations in international trade. 14

UNIT-IV

Q.7 Discuss non-tariff barriers. Why are NTBs gaining importance day by day? Discuss the role of NTBs in international trade. 14

Q.8 Explain the followings:
   a) WTO 5
   b) Trading Blocks 5
   c) Flexible Exchange rate 4
End Semester Examination, May 2014  
BBA (CAM) – Sixth Semester  
DISTRIBUTED DATABASE SYSTEM AND E-COMMERCE (BCAM-603)

Time: 3 hrs  
Max Marks: 70  
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1  

a) A transaction manager is which of the following:  
   i) Maintains a log of transactions.  
   ii) Maintains before and after database images.  
   iii) Maintains appropriate concurrency control.  
   iv) All of the above.  

b) Location transparency allows for which of the following:  
   i) Users to treat the data as if it is at one location.  
   ii) Programmers to treat the data as if it is at one location.  
   iii) Managers to treat the data as if it is at one location.  
   iv) All of the above.

1

c) In distributed database system data is centralized:  
   i) True  
   ii) False

1

d) BBC site belongs to which category of site:  
   i) Social networking.  
   ii) Transactional websites.  
   iii) Relationship building websites.  
   iv) Media or publisher site.  
   v) Brand-building website.

1

e) A fire wall can only be used in intranet.  
   i) True  
   ii) False

1

f) B2C commerce is:  
   i) Includes services such as legal advice.  
   ii) Means only shopping for physical goods.  
   iii) Means only customers should approach customers to sell.  
   iv) Means only customers should approach business to buy.

1

g) Define a query.  
  
2

h) Name any four electronic payment gateways.  

2

i) What is heterogeneous distributed database?

2

j) What is hot backup?

2

UNIT-I

Q.2 Explain major reasons for implementations of distributed processing and processing concerns.

14

Q.3 What is a query? Explain query execution plan and access plan.

14

UNIT-II

Q.4 What do you mean by “Translation of global queries”? Explain the access plans to optimize global queries.

14

P. T. O.
Q.5 Write notes on:
   a) Replication of distributed database.
   b) Horizontal and vertical fragmentation.  7x2

**UNIT-III**

Q.6 Categorize e-commerce and explain each category with suitable examples.  14

Q.7 What is e-payment? Explain the features of electronic payment gateways in detail.  14

**UNIT-IV**

Q.8 Explain the use of e-commerce applications in different types of organizations.  14

Q.9 Write notes on:
   a) Virtual organization.  6
   b) Firewalls as security system.  8
End Semester Examination, May 2014
BBA (CAM) – Sixth Semester
ORGANIZATIONAL DEVELOPMENT (BCAM-604)

Time: 3 hrs  Max Marks: 70
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the questions briefly:
   a) Define organizational development.
   b) Explain OD values.
   c) What is action research?
   d) Differentiate between vertical merger and horizontal merger.
   e) What is techno structural intervention?
   f) Name the industries who are under compulsory licensing in India.
   g) Give some examples of joint venture. 2x7

UNIT-I

Q.2 Write a brief history on evolution of organizational development. 14

Q.3 Write short notes on:
   a) Significance of organizational development.
   b) Goals and dimensions of organizational development. 7x2

UNIT-II

Q.4 What is organizational development intervention? Discuss the nature and types of organizational development interventions. 14

Q.5 Explain the following:
   a) Leadership development interventions.
   b) Strategic interventions. 7x2

UNIT-III

Q.6 Explain the following:
   a) Organizational development in Indian context.
   b) Advantages and disadvantages of globalization. 7x2

Q.7 Write short notes on:
   a) Types of strategic alliances.
   b) MRTP Act. 7x2

UNIT-IV

Q.8 What is organizational restructuring? Explain the symptoms which indicate the need for organizational restructuring. 14

Q.9 a) Explain equity participation.
    b) Explain the different types of mergers. 7x2
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) - First Semester
BUSINESS ORGANISATION AND MANAGEMENT (CH-1.1)

Time: 3 hrs  Max Marks: 100
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. Marks are indicated against each.

Q.1  a) Answer briefly:
   i) Give two limitations of MNCs.
   ii) State any two objectives of FICCI.
   iii) State two disadvantages of planning.
   iv) What is entrepreneurship?
   v) Give any two features of projects organization.
   vi) Diagrammatically represent Maslow’s theory of motivation.
   vii) Give any two points of difference between sole-proprietorship and partnership firms.
   viii) Diagrammatically represent leadership continuum.
   ix) State any two characteristics of co-operative society.
   x) Discuss the interface between business and its environment.  2x10

b) Answer briefly:
   i) Explain the objective of CII as a form of trade association.
   ii) Discuss barriers of communication.
   iii) Explain two factor theory of motivation.
   iv) Discuss briefly the process of control.  5x4

UNIT-I

Q.2  What is business? Discuss its features and scope.  15

Q.3  a) Differentiate between business profession and employment as different forms of economic activities.  7
     b) Differentiate between public and private Ltd. Company.  8

UNIT-II

Q.4  What do you mean by business combinations? What are the objectives and causes of business combinations?  15

Q.5  Why is regulation of stock exchange necessary? What is the contribution of SEBI in this regard?  15

UNIT-III

Q.6  “Whatever a manager does, he does through decision-making” Simplify the above statement and describe the different steps in the process of decision-making.  15

Q.7  How is matrix organization an improvement over project structure? Explain with the help of a diagram.  15

UNIT-IV

Q.8  Identify the leadership styles describing the situation under which each style is useful. What factors influence the choice of leadership style?  15

Q.9  “Planning is looking ahead and control is looking back”. Do you agree with this statement? Discuss various techniques of control in the organization.  15
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated)-First Semester
INDIAN ECONOMIC AND SOCIAL ENVIRONMENT (CHE-1.1)

Time: 3 hrs
Max Marks: 100
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. Marks are indicated against each.

Q.1 a) Fill in the blanks:
   i) The new economic policy was announced in the year _______.
   ii) The _______ environment differs over space, time and methods.
   iii) The mixed economy of India consists of both _______ and private sector.
   iv) Economic growth means more _______.
   v) The full form of SIDBI is _______.
   vi) _______ can be the example for endogenous factors.
   vii) Foreign trade contributes to the _______ and development of a developing country.
   viii) _______ is one of the parameters of globalization.
   ix) The primary function of money is considered as _______ of exchange.
   x) Privatization of _______ services is recommended as a result of the process of economic reforms. 1x10

b) Write very short notes on the following: (max 20 words)
   i) Small scale sector.
   ii) Mixed economy.
   iii) Fiscal deficit.
   iv) Industrial licensing policy.
   v) External debt. 2x5

c) Write short notes on any four:
   i) Changing role of government.
   ii) Public sector.
   iii) Inflation.
   iv) Social responsibility of business.
   v) Merits of foreign capital. 5x4

UNIT-I

Q.2 Distinguishing economic development from economic growth. Explain the major structural changes experienced by the Indian economy. 15

Q.3 How are economic and non-economic environment inter-related? How do these environments impact the business? Explain with examples. 15

UNIT-II

Q.4 Explain industrial sickness. What are the factors responsible for sickness in small scale industry? What remedial measures would you suggest for tackling the problems? 15

Q.5 What is the rational for private sector development? Critically examine the problems and prospects of private sector. 15

P. T. O.
UNIT-III

Q.6 What is balance of payments? What is its significance? Evaluate the circumstances which led to BOP crises in 1991-92. How did Indian overcome this crisis? 15

Q.7 Analyze the trade policy reforms implemented by India in the 90's. What are its implications? 15

UNIT-IV

Q.8 Critically evaluate the main features of the New Industrial Policy of India introduced in 1991. 15

Q.9 Explain Privatization, liberalization and globalization as the features of reforms in India. 15
End Semester Examination, May 2014
B.Com. (Hons) - First Semester
FINANCIAL ACCOUNTING (CH-1.2)

Time: 3 hrs
Max Marks: 100
No. of pages: 3

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. Marks are indicated against each.

Q.1
a) State whether the following statements are true or false:
   i) Land is a depreciable asset.
   ii) The sale book is kept to record both cash and credit sales.
   iii) The debit balance in the profit and loss account is surplus.
   iv) Balance of cash and bank is not transferred to realization account.
   v) Lease confers no legal title to the lessee even after expiry of the lease period.

   2x5

b) Fill in the blanks:
   i) Internal users of accounting information are ________.
   ii) Salary paid to Pooja will be debited to ______ A/c.
   iii) Trial balance is just a ______ and not an account.
   iv) Accrued income added in income on ______ side of profit and loss A/c shown in ______ of balance sheet.
   v) In the event of dissolution of firm, the partner’s assets are first used for payment of the ______.

   2x5

c) Short answer questions:
   i) Give the journal entries and accounting treatment of rent paid in advance and outstanding rent in final accounts.
   ii) Give differences between journal and ledger.
   iv) Explain the rule of Garner vs Murray.
   v) Differentiate hire purchase system and installment purchase system from the accounting point of view.

   4x5

UNIT-I

Q.2 Define financial accounting. What are its main objectives? How accounting is different from book-keeping?

15

Q.3 What do you mean by accounting principles? Explain the different types of accounting principles.

15

UNIT-II

Q.4 What is depreciation? Differentiate with suitable examples, between straight line method and diminishing balance method of charging depreciation.

15

Q.5 On 1st January, 2012, the following were the ledger balances of Rajan & Co.: Cash in hand Rs. 900/-; Cash at banks Rs. 21,000/-; Soni (Cr.) Rs. 3,000/-; Zahir (Dr.) Rs. 2,400/-; stock Rs. 12,000/-; Prasad (Cr.) Rs. 6,000/-; Sharma (Dr.) Rs. 4,500/-; Lall (Cr.) Rs. 2,700/-, ascertain capital.

P. T. O.
Transactions during the month were:

2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan., 02</td>
<td>Bought goods of Prasad</td>
<td>2,700/-</td>
</tr>
<tr>
<td>Jan., 03</td>
<td>Sold to Sharma</td>
<td>3,000/-</td>
</tr>
<tr>
<td>Jan., 05</td>
<td>Bought goods of Lall for cash, paid by cheque</td>
<td>3,600/-</td>
</tr>
<tr>
<td>Jan., 07</td>
<td>Took goods for personal use</td>
<td>200/-</td>
</tr>
<tr>
<td>Jan., 13</td>
<td>Received from Zahir in full settlement</td>
<td>2,320/-</td>
</tr>
<tr>
<td>Jan., 17</td>
<td>Paid to Soni in full settlement</td>
<td>2,920/-</td>
</tr>
<tr>
<td>Jan., 22</td>
<td>Paid cash for stationery</td>
<td>50/-</td>
</tr>
<tr>
<td>Jan., 29</td>
<td>Paid to Prasad by cheque</td>
<td>2,650/-</td>
</tr>
<tr>
<td>Jan., 30</td>
<td>Discount allowed by him</td>
<td>50/-</td>
</tr>
<tr>
<td></td>
<td>Rent due to landlord</td>
<td>200/-</td>
</tr>
</tbody>
</table>

Journalize the above transactions, post them in the ledger and prepare trial balance.

**UNIT-III**

Q.6 The following is the trial balance of Mr. Atul on 31st March, 2011.

<table>
<thead>
<tr>
<th>Debit balances</th>
<th>Rs.</th>
<th>Credit balances</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock (1st April, 2010)</td>
<td>50,000</td>
<td>Bank</td>
<td>24,000</td>
</tr>
<tr>
<td>Cash in hand</td>
<td>10,000</td>
<td>Sales</td>
<td>12,40,000</td>
</tr>
<tr>
<td>Purchases</td>
<td>8,20,000</td>
<td>Returns</td>
<td>15,000</td>
</tr>
<tr>
<td>Returns</td>
<td>20,000</td>
<td>Outstanding wages</td>
<td>26,000</td>
</tr>
<tr>
<td>Carriage</td>
<td>12,000</td>
<td>Sundry creditors</td>
<td>75,000</td>
</tr>
<tr>
<td>Wages</td>
<td>60,000</td>
<td>Capital</td>
<td>3,20,000</td>
</tr>
<tr>
<td>Sundry debtors</td>
<td>20,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorbike</td>
<td>15,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salary</td>
<td>1,20,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing and Stationary</td>
<td>22,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insurance (Animal premium paid on 1st January 2011)</td>
<td>16,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant and Machinery</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furniture</td>
<td>40,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accrued Income</td>
<td>5,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawings</td>
<td>10,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>17,00,000</td>
<td></td>
<td>17,00,000</td>
</tr>
</tbody>
</table>

Prepare trading and profit and Loss account for the year ending 31st March, 2011 and the balance sheet as on that date after taking into account the following adjustments:

a) Closing stock was valued at Rs. 80,000/- It includes goods costing Rs. 10,000/- which were sold and recorded as sales but not delivered to the customer.

b) On 1st January, 2011 a new machinery costing Rs. 80,000/- was purchased on credit but no entry has been passed.

c) Depreciation is to be provided @ 10 % p. a. on all fixed assets.

d) Motorbike was sold at book value on 1st April, 2010 and the cash was used by Mr. Atul for his personal use but it was left unrecorded.

e) A fire occurred on 1st April, 2011 destroying goods costing Rs. 25,000/-

f) 2/3rd of the expenses on carriage are related to the goods purchased and 1/3rd are related to sales.
Q.7  a) On 1st January, 1992 Gupta brothers purchased a scooter from India motors limited on hire purchase basis. The hire purchase price of the scooter was Rs. 23,100/- payable as follows:
Rs. 4,000/- on delivery; Rs. 7,600/- at the end of first year; Rs. 6,000/- at the end of second year and Rs. 5,500/- at the end of 3rd year. The vendor charges interest @ 10 % p.a. on the outstanding cash value of the scooter.
Prepare scooter account and the hire vendor’s account in the books of the purchaser assuming that the purchaser writes off depreciation at 20 % p.a. on reducing installment method.

b) Distinguish between operating lease and financial lease.

UNIT-IV

Q.8  a) When does the implied authority to bind the firm terminate in the event of dissolution of a partnership firm?

b) State the journal entries that are to be passed in the event of amalgamation in the books of the firms to be amalgamated.

Q.9  The following is the balance sheet of P & S trading as P & S Co. on December 31, 1994, profits being divided 3/5 to P and 2/5 to S.

<table>
<thead>
<tr>
<th>Liabilities</th>
<th>Amount Rs.</th>
<th>Assets</th>
<th>Amount Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P’s capital account</td>
<td>7,000</td>
<td>Debtors</td>
<td>4,400</td>
</tr>
<tr>
<td>S’s capital account</td>
<td>4,000</td>
<td>Building</td>
<td>3,000</td>
</tr>
<tr>
<td>Sundary creditors</td>
<td>3,000</td>
<td>Bank</td>
<td>1,600</td>
</tr>
<tr>
<td></td>
<td>14,000</td>
<td></td>
<td>14,000</td>
</tr>
</tbody>
</table>

They agree to admit a new partner B on January 1, 1995 and the following arrangements are made:

a) Good will to be created amounting to Rs. 3,500/- to be created to P and S in the same properties as they divide profits.

b) The building and plant are independently valued at Rs. 3,500/- and Rs. 6,000/- respectively, the increased valued to be similarly creditor to P and S.

c) B to bring Rs. 4,000/- cash as his capital.

d) All to be charged 5 % interest on drawings, which amount to Rs. 200/- a month, drawn by each partner at the end of each month.

e) Profit to be divided in the proportion P3, S3 and B2. The profit as on 30 Jun, 1995 before allowing interest was Rs. 15,000/.-. Prepare the firm’s balance sheet and partner’s capital accounts as on 30 June, 1995.
End Semester Examination, May 2014
B.Com. (Hons) Industry Integrated - First Semester
FINANCIAL ACCOUNTING (CH-1.2K)

Time: 3 hrs  Max Marks: 100
No. of pages: 2

Note: Attempt FIVE questions in all; Q.1 is compulsory from PART-A. At least FOUR questions from PART-B. All questions carry equal marks.

PART-A

Q.1 Journalise the following transactions in the books of Raman.

2013

April 1  Commenced business with a capital  Rs.
April 2  Purchased goods  50,000
April 4  Purchased registers, pens, etc.  8,000
April 4  Bought Furniture  240
April 6  Purchased Cycle for son  1,200
April 8  Sold goods for Cash  800
April 12  Purchased goods from Pawan  1,560
April 14  Sold goods to Avtar  4,130
April 22  Deposited into Bank  1,750
April 24  Personal expenses paid in cash  7,000
April 25  Paid to Pawan  400
April 28  Returned goods to Pawan  1,000
April 29  Sold goods for Cash  230
April 30  Avtar returned goods  1,200
April 30  Salary paid by cheque  400
April 30  Salary Outstanding  20,000

20

PART-B

Q.2 a) Explain the various types of accounts with examples under traditional approach to accounting. 10
b) Explain the qualitative characteristics of financial statements? 10

Q.3 Assuming a difference in figures to have been entered in a Suspense Account, Pass the journal entries required to correct the following mistakes.

a) Cash Rs.184 paid by Lalit (a customer) posted as Rs.180.
b) Sale to Ramesh Rs.52 not posted.
c) The account of a creditor, Tarun over-added on the credit side by Rs.10.
d) The balance of Petty cash in hand Rs.50 placed on the credit side of the Trail balance.
e) A debit balance of Rs.70 in Ram’s Account omitted from the Trail Balance.
f) Goods returned by Brown Rs.35 credited to him, but not recorded in Sales Returns Book.
g) Sales Book overcast by Rs.100.
h) The discount column on the debit side of the Cash Book under-added by Rs.10. 20

P.T.O.
Q.4 On 31st December 2013, the Cash Book of a firm showed a balance at bank of Rs.1,729. From the information given below prepare the Bank Reconciliation Statement, showing the balance as per Pass Book:
   a) Cheques issued for Rs.600 had not yet been presented at the bank for payment.
   b) Cheques amounting to Rs.750 were paid in on 29th December but had not been credited by the bank. One cheque, for Rs.230 was entered in the Cash Book on 31st Dec., but was banked on 2nd January, 2014.
   c) A cheque from Vinod, for Rs.150, paid in on 27th December was dishonoured but the amount of dishonor was received only on 2nd January, 2014.
   d) Pass Book shows bank charges Rs.15, debited by the bank. It also shows Rs.350 collected by the bank as interest on securities.

Q.5
   a) Differentiate between capital reserve and revenue reserve.
   b) A company took a one year insurance policy with effect from 15th June 2012 and paid a premium of 24,000 in the months June 2012. Find out prepaid insurance premium for the year ended 31st March 2013. Pass necessary journal entries to record the above transactions.
   c) Explain the meaning of Trade discount and cash discount. And Pass the journal entries to record the purchase of 100 calculators at Rs. 200 each with a trade discount of 10%.

Q.6
   The following are the extracts of trial balance of a firm as on 31st March 2013.
   Sundry debtors 5, 05,000
   Bad debts 15,000
   After preparing trial balance, it was learnt that a debtor, balance due from him was Rs. 5,000, has become insolvent and nothing could be recovered from him.
   On 31st March 2013 Provision for doubtful debts A/c to be maintained at 10%.
   Pass necessary journal entries, prepare sundry debtors account, Bad debts account and Provision for doubtful debts account.
End Semester Examination, May 2014
FCH B.Com. (H) & (I.I.)-First Semester
MICRO ECONOMICS (CH-1.3)

Time: 3 hrs  Max Marks: 100
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Answer the followings in brief (within 20-30 words):
   i) What is meant by scarcity?
   ii) What is econometrics?
   iii) What is a derived demand?
   iv) Write two limitations of microeconomics.
   v) What are Giffen goods?
   vi) What is supply function?
   vii) Define pure competition.
   viii) Define dumping.
   ix) Define marginal rate of substitution.
   x) What is budget line? 2x10

b) Answer the following:
   i) Differentiate micro and macroeconomics.
   ii) Distinguish between joint demand and composite demand.
   iii) Write the feature of perfect competitive market.
   iv) Define opportunity cost using suitable example. 5x4

UNIT-I

Q.2  "The economist is not to be a jury but an expert witness." Discuss. 15

Q.3  Discuss in detail various economic systems. 15

UNIT-II

Q.4  Explain the difference between increase/extension in demand and decrease/contraction in demand. Discuss conditions under which increase in price leads to increase in demand. 15

Q.5  What is meant by supply? Which factors influence the supply? Explain the law of supply with the help of a supply curve and supply schedule. 15

UNIT-III

Q.6  Distinguish between market price and normal price. How is market price determined? Explain with the help of a suitable diagram. 15

Q.7  With the help of a suitable diagrams and schedules, explain the behavior of total cost, average cost and marginal cost along with their interrelationship. 15

UNIT-IV

Q.8  Explain the necessary conditions for price discrimination and analyze the allocation of total sale by a monopolist in two different markets. Use suitable diagrams. 15

Q.9  Explain in detail monopoly and anti-trust policy. 15
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) -First Semester
BUSINESS LAW (CH-1.4)

Time: 3 hrs  Max Marks: 100
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. Marks are indicated against each question.

Q.1 State whether the following statements are true or false:
a) A digital signature is an electronics image of hand written signature of a person.
b) The Information Technology Act, 2000 is applicable to whole of India.
c) Agency relationship exists between LLP and its partners.
d) In a LLP there is reparation of ownership and management.
e) Audit is mandatory for a LLP.
f) Hire purchase agreements are covered in the sale of Goods Acts.
g) The breach of a condition entitles the buyer to claim damages and not to treat the contract as terminated.
h) An invitation to an offer is not an offer.
i) Consideration must be something of value and need to be always adequate.
j) A specific guarantee can never be revoked.  

1x10

Fill in the blanks:
a) An agreement without consideration is ________.
b) A run agent is appointed by ________.
c) A contract for sale of goods on sale or return basis is an ________.
d) An unpaid seller has rights against ________ as well as against ________.
e) Goods to be manufactured or produced or acquired by the seller after making the contract are called ________.
f) The minimum Capital of LLP is ________.
g) In the absence of LLP agreement the mutual rights and duties of partners are determined as per ________.
h) A LLP may be wound up in ________ ways.
i) Provide key is key pair used to create ________.
j) The information technology Act, 2000 is based on model law on e-commerce adopted by ________.

1x10

Write short notes on any four:
a) Designated partners.
b) Doctrine of caveat emptor.
c) Quasi contracts.
d) Objectives of Information Technology Act.
e) Free consent in contract.

5x4

UNIT-I

Q.2 What do you mean by breach of a contract? Discuss the various remedies available to an aggrieved party in case of breach.  

Q.3 Discuss the nature of contract of agency. Explain the various modes of creation of agency.  

UNIT-II

Q.4 Define the term ‘Contract of Sale’. Explain its essential elements. Also differentiate between sale and agreement to sell.  

P. T. O.
Q.5 Discuss the remedies available to buyer and seller against each other for the breach of contract of sale.  

UNIT-III

Q.6 Discuss the nature of limited liability partnership. Compare it with a joint stock company.

Q.7 Explain the various steps involved in the process of voluntary winding up of an LLP. Also discuss its effects.

UNIT-IV

Q.8 Discuss the functions and powers of controller of certifying authority.

Q.9 Write a detailed note on 'e-governance' with reference to Information Act, 2000.
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) - First Semester
BUSINESS COMMUNICATION-I (CH-1.5)

Time: 3 hrs
Max Marks: 100
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. Marks are indicated against each.

Q.1 Fill in the blanks:
   a) Gossip is also known as ________.
   b) Looking for a word in a dictionary is called ________.
   c) Body language is also known as ________.
   d) We must maintain ________ with the speaker while communicating.
   e) Listening is hearing with ________.
   f) Way of sitting and standing is called ________.
   g) Listening with concentration is called ________ ________.
   h) Hand and head movement during communicating is called ________.
   i) Message within the office can be sent through a ________.

Answer the following in one or two sentences. Also give examples of each:
   a) Passive listening  
   b) Decoding
   c) Note-making 
   d) Voice modulation
   e) Skill

Write short notes on the following:
   a) Importance of feedback in communication
   b) e-mail communication
   c) Types of communication
   d) Report writing

UNIT-I

Q.2 Highlight with examples the importance of seven Cs in making communication effective. 15

Q.3 What are the different forms of communication in organizations? Discuss the barriers which make communication ineffective and suggest ways to overcome them. 15

UNIT-II

Q.4 Discuss the layout and process of writing a formal letter. Write a letter to the electricity department who have overcharged you in the monthly bill. 15

Q.5 Write short notes on the following:
   a) Notice
   b) Agenda
   c) Minutes of a meeting

UNIT-III

Q.6 You are the investigating officer of XYZ Company. Write a report about a fire which took place in the godown of the company. Mention the time, cause and loss of the fire. Also mention how you carried out your investigations and collected the data? 15

P. T. O.
Q.7  Write short notes on:
   a) Summaries
   b) Proposals
   c) Abstracts

   UNIT-IV

Q.8  "Reading, listening and speaking are very important forms of communication".
     Highlight the importance of each in the process of making communication effective.

Q.9  "Body language can be effectively used to polish up the personality of an individual".
     Explain each component of body language to show importance in enhancing the
     personality of an individual.
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) – Second Semester
BUSINESS STATISTICS (CH-2.1)

Time: 3 hrs  Max Marks: 100
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Fill in the blanks:
   i) If median=30 and mean=22; then mode is ________.
   ii) In a distribution the value which appears with the greatest frequency is ________.
   iii) Harmonic mean is used to find ________.

Comment on the given statements:
iv) The two regression coefficients are -1.68 and -1.02, respectively.
v) Arithmetic mean and harmonic mean for a distribution are 26 and 32, respectively.
vi) The coefficient of correlation (r) is 1.86.

Short answer questions:
vii) What do you mean by geometric mean?
viii) Give one measure of positive correlation.
ix) Define one measure of dispersion.
x) Write one difference between correlation and regression.

2x10

b) i) Find out missing frequencies for the data given below:

<table>
<thead>
<tr>
<th>Class</th>
<th>0-10</th>
<th>10-20</th>
<th>20-30</th>
<th>30-40</th>
<th>40-50</th>
<th>50-60</th>
<th>60-70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>10</td>
<td>20</td>
<td>f₁</td>
<td>40</td>
<td>f₂</td>
<td>25</td>
<td>15</td>
</tr>
</tbody>
</table>

If median value is 35 and N=170.

ii) Two dice are tossed. What is the probability that the total is divisible by 3 or 4?

iii) The mean of a binomial distribution is 20 and standard deviation is 4. Find n, p and q.

iv) Calculate rank correlation for the data given below:

<table>
<thead>
<tr>
<th>X</th>
<th>30</th>
<th>33</th>
<th>45</th>
<th>23</th>
<th>8</th>
<th>49</th>
<th>12</th>
<th>4</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>35</td>
<td>23</td>
<td>47</td>
<td>17</td>
<td>10</td>
<td>43</td>
<td>9</td>
<td>6</td>
<td>28</td>
</tr>
</tbody>
</table>

5x4

UNIT-I

Q.2  a) What do you mean by dispersion? Explain the different measures of dispersion. 5
b) For the following data, calculate the values median, D₅, Q₃, P₇ and mean:

<table>
<thead>
<tr>
<th>Marks</th>
<th>20-25</th>
<th>25-30</th>
<th>30-35</th>
<th>35-40</th>
<th>40-45</th>
<th>45-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of students</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>15</td>
<td>15</td>
<td>20</td>
</tr>
</tbody>
</table>

10

Q.3  Sample of polythene bags from two manufacturers, A and B, are tested by a prospective buyer for bursting pressure and the results are as follows:

<table>
<thead>
<tr>
<th>Bursting pressure</th>
<th>Number of bags</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>5.0-9.9</td>
<td>2</td>
</tr>
<tr>
<td>10.0-14.9</td>
<td>9</td>
</tr>
<tr>
<td>15.0-19.9</td>
<td>29</td>
</tr>
<tr>
<td>20.0-24.9</td>
<td>54</td>
</tr>
<tr>
<td>25.0-29.9</td>
<td>11</td>
</tr>
<tr>
<td>30.0-34.9</td>
<td>5</td>
</tr>
</tbody>
</table>

Find, which set of bags, has more uniform pressure? 15

P. T. O.
UNIT-II

Q.4  a) There are three machines A, B and C in a factory. Their daily outputs are in the ratio of 2:3:1. Past experience shows that 2%, 4% and 5% of the item produced by A, B and C, respectively are defective. If an item selected at random is found to be defective, find the probability that it was produced by A or B.

b) Assume that the probability of a fatal accident in a factory during the year is \( \frac{1}{1200} \).

Calculate the probability that in a factory employing 300 workers, there will be at least 2 fatal accidents in a year. (Given \( e^{-0.25} = 0.7788 \))

Q.5  a) A person has two independent investments A and B available to him, but he can undertake only one at a time due to certain constraints. He can choose A first and then stop, or if A is successful, then take B or vice-versa. The probability of success of A is 0.6 while that of B is 0.4. Both investments require an initial capital outlay of Rs. 10,000 and both return nothing if the venture is unsuccessful. Success completion of A will return Rs. 20,000 and successful completion of B will return Rs. 24,000. Draw an appropriate decision tree and determine the best strategy.

b) A can hit a target 3 times in 5 shots, B 2 times in 5 shots and C 3 times in 4 shots. They fire a volley. What is the probability of the target being hit at all?

UNIT-III

Q.6  a) Find the rank correlation coefficient from the following marks awarded by the examiners in mathematics:

<table>
<thead>
<tr>
<th>Roll no.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examiner A</td>
<td>24</td>
<td>29</td>
<td>19</td>
<td>14</td>
<td>30</td>
<td>19</td>
<td>27</td>
<td>30</td>
<td>20</td>
<td>28</td>
</tr>
<tr>
<td>Examiner B</td>
<td>37</td>
<td>35</td>
<td>16</td>
<td>26</td>
<td>23</td>
<td>27</td>
<td>19</td>
<td>20</td>
<td>16</td>
<td>11</td>
</tr>
<tr>
<td>Examiner C</td>
<td>30</td>
<td>28</td>
<td>20</td>
<td>25</td>
<td>25</td>
<td>30</td>
<td>20</td>
<td>24</td>
<td>22</td>
<td>29</td>
</tr>
</tbody>
</table>

b) Distinguish between correlation and regression.

Q.7  a) Define regression. What are the properties of regression?

b) Calculate the two regression equations for the following data given below:

<table>
<thead>
<tr>
<th>X:</th>
<th>60</th>
<th>62</th>
<th>65</th>
<th>70</th>
<th>72</th>
<th>48</th>
<th>53</th>
<th>73</th>
<th>65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y:</td>
<td>68</td>
<td>60</td>
<td>62</td>
<td>80</td>
<td>85</td>
<td>40</td>
<td>52</td>
<td>62</td>
<td>60</td>
</tr>
</tbody>
</table>

Also, find the estimate of X when Y=90.

UNIT-IV

Q.8  a) What do you mean by time? Explain the components of time series.

b) From the following data construct:

i) Laspeyre's.

ii) Paasche's.

iii) Fisher's ideal index numbers:

<table>
<thead>
<tr>
<th>Commodity</th>
<th>2003</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Price</td>
<td>Quantity</td>
</tr>
<tr>
<td>A</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>B</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>40</td>
<td>15</td>
</tr>
<tr>
<td>D</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>

Q.9  a) What are the various problems involved in the construction of index numbers?

b) Fit a straight line trend by the method of least squares for the data given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>80</td>
<td>90</td>
<td>92</td>
<td>83</td>
<td>94</td>
<td>99</td>
</tr>
</tbody>
</table>

What is the expected production for the year 2010?
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) – Second Semester
FUNDAMENTALS OF COMPUTER AND INFORMATION SYSTEM (CH-2.2)

Time: 3 hrs
Max Marks: 50
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Define a software.
b) You accidentally erased a record in the sheet. What command can be used to restore it immediately?
i) Insert
  ii) Copy
  iii) Undo
  iv) Replace
c) Where a row and a column meet, what do you call that?
i) A cell
  ii) A block
  iii) A box
  iv) None of above
d) Which one of the following is an example of a cell address?
i) 1125
  ii) A11
  iii) A1A
  iv) None of above
e) Which of the following is not valid version of MS Office?
i) Office XP
  ii) Office Vista
  iii) Office 2007
  iv) None of above
f) What is the shortcut to paste a file in MS Word?
g) Which file starts MS Word?
i) Winword.exe
  ii) Word.exe
  iii) MSWord.exe
  iv) Word2003.exe
h) In how many ways you can save document?
i) 3
  ii) 4
  iii) 5
  iv) 6
i) For mail-merge MS-Word and MS Excel both are required.
i) True
  ii) False
j) How many sheets are there in an Excel file?
i) 3
  ii) 4
  iii) 2
  iv) 5

UNIT-I

Q.2 ‘Operating system works as a resource manager’. Justify the statement, also explain its functions. 10

Q.3 Write short notes on:
i) Advantages and limitations of computers.
ii) Types of computers. 5x2

UNIT-II

Q.4 What is an information system? Explain any two information systems in detail. 10

Q.5 Write short notes on:
a) Search engines.
b) Types of networks. 5

UNIT-III

Q.6 What is word-processing? Explain its use in different work areas. 10

Q.7 Write short notes on:
a) Tables in word document.
b) Editing of a file in MS Word. 4 6

UNIT-IV

Q.8 What is a spreadsheet? Explain its users in different application areas. 10

Q.9 Write short notes on:
a) Explain graphs with examples.
b) Statistical formulas in MS Excel. 5x2
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) – Second Semester
MICRO ECONOMICS-II (CH-2.3)

Time: 3 hrs

Max Marks:100

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Answer the following:
   a) Define oligopoly.
   b) What is a cartel?
   c) At the best, or optimum, level of output for the pure monopolist:
      i) MR=SMC
      ii) P=SMC
      iii) P=lowest SAC
      iv) P is lowest
   d) What do you understand by excess capacity?
   e) Give one limitation of contestable market theory.
   f) What is derived demand?
   g) What do you understand by quasi rent?
   h) What is meant by probability distribution?
   i) The theory of general equilibrium was developed by _________ and _________.
   j) Under what conditions would a _______ monopolistically competitive firm be
      incurring losses and still operating in short-run. 2x10

Answer the following in brief:
   k) Distinguish between pure competition and monopoly.
   l) Explain the absence of supply curve under monopoly with the help of a diagram.
   m) In monopolistically competitive market, proportional demand curve and long run
      average cost curve are given below:
      \[ P=36-2Q \text{ and } LAC=Q^2-10Q+100 \]
      What is long run equilibrium price and quantity?
   n) Write a short note on causes of market failure. 5x4

UNIT-I

Q.2 How do you measure the degree of monopoly power? What is the rule of thumb for
   pricing? Explain Learner’s measure of monopoly power. 15

Q.3 What do you mean by peak load pricing? Show how peak load pricing can be better
   policy than uniform pricing in case of public utility company producing electricity? 15

UNIT-II

Q.4 What assumptions underline the Cournot’s duopoly model? Explain Cournot’s
   equilibrium with the help of action reaction curve? 15

Q.5 Explain price rigidity in oligopolistic markets with the help of kinked demand curve
   model. 15

UNIT-III

Q.6 Explain the determination of the price of labour under perfect competition in both the
   factor and product market. 15

P. T. O.
Q.7 What do you know about the concept of transfer earnings? How is it related to economic rent? Explain with the help of diagrams.  

UNIT-IV

Q.8 With the help of edge worth consumption box diagram, explain efficiency in exchange of two goods between two consumers. What does contract curve of exchange indicate?  

Q.9 Write notes on:  
   a) Difference between the nominal rate of interest and the real rate of interest.  
   b) Internal rate of return.  
   c) Consumer decision on buying or leasing a car.  

5x3
End Semester Examination, May 2014
B.Com. (Hons) and (Industry Integrated) – Second Semester
CORPORATE LAWS (CH-2.4)

Time: 3 hrs

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Fill in the blanks:
   i) CIN stands for __________.
   ii) The Companies Act allows a company to convert its fully paid up shares into __________.
   iii) All public companies either issue a prospectus or file a statement in __________.
   iv) An illegal association is liable to be __________.
   v) A __________ is neither as agent of, nor trustee for the company, because it is not in existence.
   vi) The doctrine of __________ protects the third parties who are entitled to an assurance that all procedural aspects of transaction are carried out.
   vii) Every public company shall have at least __________ directors.
   viii) __________ is the share of company's profit distributed among the members.
   ix) A company can't go beyond the powers stated in the __________.
   x) A company formed under the act of parliament or state legislature is called a __________.

b) State true or false:
   xi) A public company is the company in which majority shares are owned by government.
   xii) A private company can't start its business before getting certificate of incorporation.
   xiii) A manager can hold the office of manager in 2 companies at a time.
   (Public companies)
   xiv) Depositories keep shares in physical form.

   1x4

c) Define:
   xv) Sweat equity shares.
   xvi) Shelf prospectus.
   xvii) Share warrant.
   2x3
d) Write short notes on any four:
   i) Books-building,
   ii) Proxy,
   iii) Legal position of director,
   iv) Holding and subsidiary company,
   v) Quorum for share holders meeting.
   5x4

UNIT-I

Q.2 "Company is a legal person distinct from its members taken individually or collectively", Comment on the statement. 15

Q.3 Who are the promoters of the company? Discuss their legal position and duties. 15

P. T. O.
UNIT-II

Q.4  a) Differentiate between members and share-holders of a company. Also discuss the rights of members of a company.  
     b) Differentiate between share certificate and share warrant.  

Q.5  a) Explain the "Doctrine of indoor management".  
     b) Distinguish between memorandum of association and articles of association.

UNIT-III

Q.6  Define winding up. Explain the voluntary winding up in detail.  

Q.7  Explain the provisions of Companies Act in relation to remuneration of managerial personal and appointment of directors.

UNIT-IV

Q.8  What are the rights and obligations of depositaries and participants under the Depositories Act, 1996?  

Q.9  a) Explain the provisions of Companies Act, 1956 related to the establishment of investor education and protection fund.  
     b) Write a detailed note on MCA – 21.
End Semester Examination, May 2014  
B.Com. (Hons) and (Industry Integrated) – Second Semester  
BUSINESS COMMUNICATION-II (CH-2.5) 

Time: 3 hrs  
Max Marks: 100  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1: Fill in the blanks with appropriate words: 

a) It is extremely different to _______ discipline from students.  
b) The _______ candidate could not decide if he should _______ or _______ the offer.  
c) We should wear _______ according to the occasion.  
d) The boy sitting _______ me, is from Bihar.  
e) A _______ goes to people, but people come to a _______.  
f) It is very important to plan a _______ for the day for effective time management.  
g) We must never _______ when two people are talking.  
h) It is always good to receive a _______ from someone.  
i) Professional _______ are always followed in reputed organizations.  
j) Indians are known for the _______ they instill in their children.  
k) The _______ of the function was excellent and could not be _______ to any other.  
l) The three Ps of a good presentation are _______, _______ and _______.  
m) I work six days a _______, _______ Sunday.

Write short notes on the following: 

n) Business negotiation. 
o) e-mail 
p) Oral presentation 
q) Research tools.

UNIT-I 

Q.2 Highlight the importance of communication in business. What aspects of communication need to be enhanced, in order to be successful?  

15

Q.3 How many types of communication are there in any organization? How does informal communication help the manager to run his department successfully?  

15

UNIT-II 

Q.4 Minutes of a meeting are essential for future reference. Discuss the above statement, keeping in mind the process which leads to writing the minutes of any meeting.  

15

Q.5 Circulars are an integral part of inter-office communication. Comment on the above and also write a sample circular.  

15

UNIT-III 

Q.6 Discuss the format of a business report. What points should be kept in mind while should a business report?  

15

Q.7 What do you mean by a business report? State the purpose of writing a business report.  

15

P. T. O.
UNIT-IV

Q.8 You are head of the marketing department responsible for all the marketing strategies used to enhance the sale of your product. Write a report about your investigation as to why the sale of your product has gone down, resulting in heavy losses for the company.

Q.9 Your Company has been asked to vacate your present business premises as a mall has to be constructed there. Write a report about a suitable place you have selected, giving details of the advantages and disadvantages of the selected site. Also give your recommendation about the suitability of the place.
End Semester Examination, May 2014  
B.Com. (Hons) (Industry Integrated) - Second Semester  
ACCOUNTING PROFESSIONALS (CH-2.6)

Time: 3 hrs  
Max Marks: 100  
No. of pages: 2

Note: Attempt FIVE questions in all; Q.1 is compulsory from PART-A. At least FOUR questions from PART B. All questions carry equal marks.

**PART-A**

Q.1 The following balances are extracted from the books of accounts of Raman on 31Dec-2013

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchases</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>Purchases return</td>
<td></td>
<td>1,410</td>
</tr>
<tr>
<td>Capital</td>
<td></td>
<td>50,500</td>
</tr>
<tr>
<td>Bad debts</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Carriage inwards</td>
<td>1,155</td>
<td></td>
</tr>
<tr>
<td>Postage and stationary</td>
<td>330</td>
<td></td>
</tr>
<tr>
<td>Discount (Cr)</td>
<td></td>
<td>115</td>
</tr>
<tr>
<td>Sales return</td>
<td>2,120</td>
<td></td>
</tr>
<tr>
<td>Building</td>
<td>16,500</td>
<td></td>
</tr>
<tr>
<td>Cash at bank</td>
<td>6,200</td>
<td></td>
</tr>
<tr>
<td>Office furniture</td>
<td>1,800</td>
<td></td>
</tr>
<tr>
<td>Commission paid</td>
<td>435</td>
<td></td>
</tr>
<tr>
<td>Sundry debtors</td>
<td>31,035</td>
<td></td>
</tr>
<tr>
<td>Rates and insurance</td>
<td>650</td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td></td>
<td>70,185</td>
</tr>
<tr>
<td>Stock (1-1-13)</td>
<td>5,730</td>
<td></td>
</tr>
<tr>
<td>Drawing</td>
<td>8,800</td>
<td></td>
</tr>
<tr>
<td>Provision for bad debt (1-1-13)</td>
<td></td>
<td>1,620</td>
</tr>
<tr>
<td>Office expenses</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>Bills receivable</td>
<td>620</td>
<td></td>
</tr>
<tr>
<td>Wages</td>
<td>3,140</td>
<td></td>
</tr>
<tr>
<td>Rent received</td>
<td></td>
<td>1,050</td>
</tr>
<tr>
<td>Cash in hand</td>
<td>1,105</td>
<td></td>
</tr>
<tr>
<td>Salary</td>
<td>4,500</td>
<td></td>
</tr>
<tr>
<td>Postage</td>
<td>410</td>
<td></td>
</tr>
<tr>
<td>Sundry creditors</td>
<td></td>
<td>9,490</td>
</tr>
<tr>
<td>Sundry expenses</td>
<td>8,470</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>134,370</td>
<td>134,370</td>
</tr>
</tbody>
</table>

Prepare trading and profit and loss account for the year ended 31st Dec, 2013 and balance sheet on that date considering the following adjustments:

a) Insurance prepaid Rs 120
b) Rent not received Rs 100
c) Depreciate on old building @2.5% and office furniture @ 5%
d) Stock on 31-12-2013 valued @ Rs 7,145

20

P.T.O.
Q.2  a) Calculate the cost to be capitalized under land, building and equipment from the following data:

<table>
<thead>
<tr>
<th>Cost Item</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of land</td>
<td>20,00,000</td>
</tr>
<tr>
<td>Cost of demolishing old building</td>
<td>14,000</td>
</tr>
<tr>
<td>Cost of leveling the land</td>
<td>14,000</td>
</tr>
<tr>
<td>Architect fee</td>
<td>38,000</td>
</tr>
<tr>
<td>Commission paid to estate agent</td>
<td>40,000</td>
</tr>
<tr>
<td>Cost of parking lot</td>
<td>60,000</td>
</tr>
<tr>
<td>Cost of construction of building</td>
<td>26,00,000</td>
</tr>
<tr>
<td>Inventory purchased</td>
<td>50,000</td>
</tr>
<tr>
<td>Cost of laboratory equipment</td>
<td>10,60,000</td>
</tr>
<tr>
<td>Cost of installing laboratory equipment</td>
<td>1,40,000</td>
</tr>
</tbody>
</table>

b) Explain the basis on which subsequent expenditure related to fixed assets are capitalized.

Q.3  On 1st April 2011, plant and machinery costing Rs. 50,000 was purchased. Another plant was purchased for Rs. 30,000 on 1st October 2011. A part of machinery costing Rs. 10,000, which was purchased on 1st April 2011, were become obsolete and was sold for Rs. 3,450 on 1st January 2013. The books were closed on 31st March every year. Prepare machinery account for three years (2011, 2012 and 2013), assuming that depreciation was charged at 10% on straight line method.

Q.4  XYZ Company issued 10,000 shares of Rs. 100 each payable as follows:

- On application: Rs. 30
- On allotment: Rs. 30
- On first call: Rs. 20
- On final call: Rs. 20

All the shares were subscribed and allotted. All the cash is duly received except a final call on 300 shares which were subsequently forfeited and reissued at Rs. 65 per share. Give necessary journal entries to record these transactions.

Q.5  The summarized Balance sheet of ABC Ltd. as on 31st March 2013 is as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Rs.</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity Share Capital</td>
<td>1,000,000</td>
<td>Cash</td>
</tr>
<tr>
<td>9% Mortgage Debentures</td>
<td>800,000</td>
<td>Bank</td>
</tr>
<tr>
<td>Reserves and surplus</td>
<td>1,600,000</td>
<td>Sundry Debtors</td>
</tr>
<tr>
<td>Creditors</td>
<td>320,000</td>
<td>Stock</td>
</tr>
<tr>
<td>Outstanding Expenses</td>
<td>20,000</td>
<td>Fixed Assets</td>
</tr>
<tr>
<td>Provision for taxation</td>
<td>260,000</td>
<td></td>
</tr>
</tbody>
</table>

Other additional information is as follows:

a) Net sales during the year amounted to Rs.60,00,000
b) Cost of goods sold in the year was Rs.51,60,000
c) Net profit before tax Rs.4,00,000
d) Net profit after tax Rs. 2,00,000
e) Opening stock at the beginning of the year is Rs. 4,00,000

From the above information calculate the following ratios:

i) Gross profit ratio
ii) Net profit ratio
iii) Current ratio
iv) Liquid ratio
v) Stock turnover ratio

Q.6  a) Differentiate between equity share and preference shares?
b) What is cash conversion cycle? Explain with the help of example.
Q.1 The following balances are extracted from the books of accounts of Raman on 31 Dec 2013

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Dr.</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchases</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>Purchases return</td>
<td></td>
<td>1,410</td>
</tr>
<tr>
<td>Capital</td>
<td></td>
<td>50,500</td>
</tr>
<tr>
<td>Bad debts</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Carriage inwards</td>
<td>1,155</td>
<td></td>
</tr>
<tr>
<td>Postage and stationary</td>
<td>330</td>
<td></td>
</tr>
<tr>
<td>Discount (Cr)</td>
<td></td>
<td>115</td>
</tr>
<tr>
<td>Sales return</td>
<td>2,120</td>
<td></td>
</tr>
<tr>
<td>Building</td>
<td>16,500</td>
<td></td>
</tr>
<tr>
<td>Cash at bank</td>
<td>6,200</td>
<td></td>
</tr>
<tr>
<td>Office furniture</td>
<td>1,800</td>
<td></td>
</tr>
<tr>
<td>Commission paid</td>
<td>435</td>
<td></td>
</tr>
<tr>
<td>Sundry debtors</td>
<td>31,035</td>
<td></td>
</tr>
<tr>
<td>Rates and insurance</td>
<td>650</td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td></td>
<td>70,185</td>
</tr>
<tr>
<td>Stock (1-1-13)</td>
<td>5,730</td>
<td></td>
</tr>
<tr>
<td>Drawing</td>
<td>8,800</td>
<td></td>
</tr>
<tr>
<td>Provision for bad debt (1-1-13)</td>
<td></td>
<td>1,620</td>
</tr>
<tr>
<td>Office expenses</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>Bills receivable</td>
<td>620</td>
<td></td>
</tr>
<tr>
<td>Wages</td>
<td>3,140</td>
<td></td>
</tr>
<tr>
<td>Rent received</td>
<td></td>
<td>1,050</td>
</tr>
<tr>
<td>Cash in hand</td>
<td>1,105</td>
<td></td>
</tr>
<tr>
<td>Salary</td>
<td>4,500</td>
<td></td>
</tr>
<tr>
<td>Postage</td>
<td>410</td>
<td></td>
</tr>
<tr>
<td>Sundry creditors</td>
<td></td>
<td>9,490</td>
</tr>
<tr>
<td>Sundry expenses</td>
<td>8,470</td>
<td></td>
</tr>
</tbody>
</table>

\[134,370 \quad 134,370\]

Prepare trading and profit and loss account for the year ended 31 Dec, 2013 and balance sheet on that date considering the following adjustments:

a) Insurance prepaid Rs 120
b) Rent not received Rs 100
c) Depreciate on old building @2.5% and office furniture @ 5%
d) Stock on 31-12-2013 valued @ Rs 7,145

P.T.O.
Q.2  a) Calculate the cost to be capitalized under land, building and equipment from the following data:

<table>
<thead>
<tr>
<th>Item</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of land</td>
<td>20,00,000</td>
</tr>
<tr>
<td>Cost of demolishing old building</td>
<td>14,000</td>
</tr>
<tr>
<td>Cost of leveling the land</td>
<td>14,000</td>
</tr>
<tr>
<td>Architect Fee</td>
<td>38,000</td>
</tr>
<tr>
<td>Commission paid to estate agent</td>
<td>40,000</td>
</tr>
<tr>
<td>Cost of parking lot</td>
<td>60,000</td>
</tr>
<tr>
<td>Cost of construction of building</td>
<td>26,00,000</td>
</tr>
<tr>
<td>Inventory purchased</td>
<td>50,000</td>
</tr>
<tr>
<td>Cost of laboratory equipment</td>
<td>10,60,000</td>
</tr>
<tr>
<td>Cost of installing laboratory equipment</td>
<td>1,40,000</td>
</tr>
</tbody>
</table>

b) Explain the basis on which subsequent expenditure related to fixed assets are capitalized.

Q.3  On 1st April 2011, plant and machinery costing Rs. 50,000 was purchased. Another plant was purchased for Rs. 30,000 on 1st October 2011. A part of machinery costing Rs. 10,000, which was purchased on 1st April 2011, were become obsolete and was sold for Rs. 3,450 on 1st January 2013. The books were closed on 31st March every year. Prepare machinery account for three years (2011, 2012 and 2013), assuming that depreciation was charged at 10% on straight line method.

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</tr>
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<tbody>
<tr>
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<td>1,000,000</td>
<td>Cash 100,000</td>
</tr>
<tr>
<td>9% Mortgage Debentures</td>
<td>800,000</td>
<td>Bank 300,000</td>
</tr>
<tr>
<td>Reserves and surplus</td>
<td>1,600,000</td>
<td>Sundry Debtors 400,000</td>
</tr>
<tr>
<td>Creditors</td>
<td>320,000</td>
<td>Stock 600,000</td>
</tr>
<tr>
<td>Outstanding Expenses</td>
<td>20,000</td>
<td>Fixed Assets 2,600,000</td>
</tr>
<tr>
<td>Provision for taxation</td>
<td>260,000</td>
<td></td>
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End Semester Examination, May 2014
BA (Hons.) ENGLISH – First Semester
ENGLISH PROSE (ENG-1.1)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Write short answers to any five.
   a) What is an Essay? Explain.  
   b) "Reading maketh a full man; conference a ready man; and writing an exact man". Explain.
   c) "Travel in the younger sort, is part of education: in the elder a part of experience". Explain with reference to the context.
   d) "Studies serve for delight, for ornament, and for ability". Explain with reference to the context.
   e) "We are not of Alice, nor of thee, nor are we children at all. The children of Alice call Bartram father. We are nothing, less than nothing, and dreams". Explain with reference to the context.
   f) What is Bacon's view on travel in 'Of Travel'?
   g) What, according to Bacon, is the benefit of studies?
   h) Bring out the picture of Lamb's grandmother that we get from his essay 'Dream Children: A Reverie'.

SECTION-B

Q.2 Answers any five:
   a) Write down the critical summary of 'Dream Children: A Reverie'.
   b) Justify Charles Lamb as a prince among the English essayists.
   c) "Bacon is a teacher and not a companion". Discuss.
   d) Write down the summary of 'Of Studies' in your own words.
   e) Explain the title 'Dream Children: A Reverie'. What is the meaning of 'Reverie' here?
   f) List the 'Dos' and 'Don'ts' for a traveler which Bacon talks about in his essay 'Of Travel'.
   g) Write a note on the elements of humour and pathos in the essays of Charles Lamb citing examples from his essays.
   h) Write a note on Bacon as the father of English essay.

SECTION-C

Q.3 Answers any two:
   a) 'The essays of Bacon constitute a handbook of practical wisdom'. Discuss.
   b) Write a note on the development of English essays from Bacon to Lamb.
   c) To what extent does Lamb reveal himself in his essays? Give examples from the essay you have read.
End Semester Examination, May 2014
BA (Hons.) ENGLISH – First Semester
CREATIVE WRITING (ENG-E-1.1)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Answers any five in brief:
   a) What do you mean by a ballad poem?
   b) What is the denouement in a short story?
   c) What is the difference between ‘personification’ and ‘apostrophe’?
   d) What do you mean by a protagonist and an antagonist in a story?
   e) Define irony as a figure of speech.
   f) What is the importance of editing in a piece of creative writing?
   g) How much ‘the appropriate choice of words’ matter in a work of creative writing?
   h) What do you mean by ‘coherence’ in a work of writing?

SECTION-B

Q.2 Give short answers to any five:
   a) What is a sonnet? Explain the difference between a Petrarchan sonnet and a Shakespearean sonnet with examples.
   b) What is a feature story? How is it different from a short story?
   c) Explain ‘Conflict-Climax-Denouement’ in a short story. Illustrate your answer with examples.
   d) What is the importance of the feeling and emotions of the poet in a poem? Mention the different types of subjective poems.
   e) Is style or workmanship more important than content in a work of creative writing? Throw light on the relationship between content of a work of writing.
   f) What do you mean by fluency and organization in writing?
   g) Write a note on the basic principles of writing.
   h) Write a poem criticizing/mocking one social evil prevalent in our society.

SECTION-C

Q.3 Give detailed answers to any two:
   a) Develop a dialogue between two students discussing the changes internet has brought in our society. (10 dialogues each)
   b) Write a letter to the editor of a leading newspaper complaining against the pathetic condition of roads and poor public transport facility in Faridabad.
   c) Write an essay of approximately 700 words on ‘Women Empowerment’.
End Semester Examination, May 2014
BA (Hons.) ENGLISH – First Semester
ROMANTIC POETRY-I (ENG-1.3)

Time: 3 hrs
Max Marks: 70
No. of pages: 2

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Answer any five of the following short answers:
Explain with reference to the context:
   a) In Xanadu did Kubla Khan / A stately pleasure-dome decree.
   b) Weave a circle round him thrice,
      And close your eyes with holy dread,
      For he on honey-dew hath fed
      And drunk the milk of paradise.
   c) If winter comes, can spring be far behind?
   d) Five years have passed; with the length
      Of five long winters! And again I hear
      These waters, rolling from mountain-springs
      With a soft inland murmur.
   e) Who hath not seen thee oft amid thy store?
      Sometime whoever seeks abroad may find
      Thee sitting careless on a granary floor,
      My sense, as though of hemlock I had drunk,
   f) O'er rough and smooth she trips along,
      And never looks behind;
      And sings a solitary song
      That whistles in the wind.
   g) I met a lady in the meads
      Full beautiful, a fairy's child,
      Her hair was long, her foot was light,
      And her eyes were wild.

SECTION-B

Q.2 Answer any five of the following questions:
   a) What is an Ode? Apply the salient features on one of the poems of John Keats.
   b) Was it a vision, or a waking dream? / Fled is that music:—Do I wake or sleep?
   c) Various pictures / paintings engraved on the Grecian urn confirm the permanence of art.
   d) Supernaturalism and Coleridge's Kubla Khan.
   e) Keats' negative capability.
   f) The ideal and the real in the Ode to the west wind.
   g) Ode to a Nightingale is essentially a reverie induced by the poet's listening to the song of the Nightingale. Explain.
   h) Shelley calls the west wind as destroyer and preserver. Explain.
SECTION-C

Q.3 Answer the *any two* of the following:

a) "Beauty is truth, truth beauty – that is all / ye know on earth, and all ye need to know". Beauty is transitory, truth is permanent. How does Keats reconcile the paradox?

b) Personification of autumn. Give examples from Ode to autumn to substantiate the point.

c) Wordsworth is a poet of nature.
End Semester Examination, May 2014
BA (Hons.) ENGLISH – First Semester
VICTORIAN POETRY (ENG-1.4)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Answers any five of the following short answer questions, explaining the given lines with reference to the context:

a) That's my last Duchess painted on the wall,
   Looking as if she were alive.
b) What hand and brain went ever paired?
   What heart alike conceived and dared?
c) The redeemed and the redeemer in the Goblin Market.
d) I am half-sick of shadows.
e) I cannot rest from travels. I will drink life to the lees.
f) In am poor brother Lippo, by you leave?
   You need not clap your torches to my face.
g) I hope to see my pilot face to face
   When I have crossed the bar?
h) For there is no friend like a sister,
   In calm and stormy weather; 3x5

SECTION-B

Q.2 Answers any five of the following questions:

a) Why does the Duke kill the Duchess?
b) Elucidate the childhood of Fra Lippo Lippi.
c) Compare and contrast Lizzi and Laura in the Goblin Market.
d) Appraise Ulysses as an indomitable adventure.
e) Dilate the lover's optimism in the Last Ride Together.
f) What does Tennyson mean by "Crossing the Bar".
g) Consider Lippo as a painter.
h) Bring out the difference between Ulysses and Telemachus as persons. 5x5

SECTION-C

Q.3 Answers any two of the following questions:

a) Christina Rossetti uses the economic language and metaphors, terms of finance and commerce to justify the title Goblin Market. Explain.
b) What is a dramatic monologue? Apply the salient features on any one of the Browning's poems you have read.
c) Examine the illusion and reality in The Lady of Shalott. 15x2
End Semester Examination, May 2014
BA (Hons.) ENGLISH – First Semester
ENGLISH GRAMMAR AND LITERARY TERMS (ENG-1.5)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Fill in the blanks any five:
   a) Patient is now free _____ danger. He is free ______ his money. The goods were
      passed free ______ duty. (from, of, with)
   b) Warden: Have you ______ complaints against the food?
      Student: We have ______ complaints at all against the food. What we ask for is
      ______ changes in the timings?
   c) He agreed ______ my proposal. He agreed ______ me on that question. They
      could not agree ______ themselves. (among, to, with)
   d) There are some diseases that proceed ______ dirt. After visiting Agra we proceed
      ______ Delhi. Let us proceed ______ the work in hand. (from, to, with)
   e) He jumped ______ a conclusion not warranted by facts. The child jumped ______
      joy when I gave him sweets. He jumped ______ my offer. (at, for, to)
   f) He takes no interest ______ politics. What you say has no interest ______
      me. I have no interest ______ the agents of the firm. (for, in, with)
   g) Let us talk ______ something else. For a while they talked ______ politics. I will
      talk ______ son respecting his conduct. (about, of, to)
   h) X: Can you tell me ______ road will take me to the college? (that, this, which)
      Y: You see these two roads ______ road will take you there. You can take the
      one or the ______. (other, each, one)

3x5

SECTION-B

Q.2 Explain any five of the following literary terms with examples.
   a) Ballad.
   b) Ode.
   c) Comedy.
   d) Negative Capability.
   e) Tragedy.
   f) Sonnet.
   g) Elegy.

5x5

SECTION-C

Q.3 Answer any two:
   a) A month ago A.K Shyam and Company Ltd., 35 Bapunagar, Jaipur bought a
      photocopy machine from a firm in Delhi. The machine does not work satisfactorily. As
      secretary of this company write a letter (to the Delhi firm) giving the details and asking
      that either it be repaired or replaced at their cost.
   b) This year students of your University organized a blood donation camp in
      collaboration with the rotary club at University campus on the Founder's day, i.e. 4
      April 2014. The efforts of the students and the staff were appreciated by all. Write
      an article on the 'Role of blood donation camps in educational Institutions' for
      publication in your University magazine (150-200 words).
   c) Draw up a notice on behalf of the HOD for the office notice-board asking the
      faculty to insert the dates on which they would they would like to take their
      summer vacations.

15x2
End Semester Examination, May 2014
BA (Hons.) ENGLISH – Second Semester
ENGLISH NOVEL (VICTORIAN AGE)-1 (ENG-2.1)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Explain with reference to the context (any five):
   a) It is a truth universally acknowledged that a single man in possession of a good
      fortune must be in want of a wife.
   b) She walked after Tom in trembling silence as he went out, thinking how she could
tell him the news so as to soften at once his sorrow and his anger; for Maggie
dreaded Tom's anger of all things; it was quite a different anger from her own.
   c) It is a wonderful subducer, this need of love – this hunger of the heart-as
   peremptory as that hunger which nature forces us to submit to the yoke,
   and change the face of the world.
   d) The happiest women, like the happiest nations, have no history.
   e) "Annual income twenty pounds, annual expenditure nineteen nineteen six, result
      happiness. Annual income twenty pounds, annual expenditure twenty pounds
      ought and six, result misery."
   f) I wonder what they thought of me!
   g) 'A poor fellow with a craze, sir,' said Mr. Dick, 'a simpleton, a weak-minded person-
      present company, you know! Striking himself again, 'may do what wonderful
      people may not do.'
   h) 'Nothing is more deceitful than the appearance of humility'.

3x5

SECTION-B

Q.2 Answer any five of the following questions:
   a) Discuss the salient features of, Victorian novel.
   b) Write a short note on Dickens Art of characterization.
   c) Bring out the autobiographical elements in David Copperfield.
   d) Write down the Character-Sketch of Mr. Bennet.
   e) Bring down the comparison between the personalities of Mr. Darcy and Mr. Bingley
      on the basis of the novel that you have read. Cite suitable examples.
   f) Is Dickens just a "great entertainer" whose works lack "a total significance of a
      profoundly serious kind?"
   g) Trace the relationship between Maggie and Tom Tulliver in the Mill on the Floss.
   h) Write a note on the element of Irony in Pride and Prejudice.

5x5

SECTION-C

Q.3 Answer any two of the following questions:
   a) "Jane Austen's heroines have no other and almost no other occupation than the
      business of getting married." Discuss with special reference to Pride and Prejudice.
   b) Write an essay on the plot construction of David Copperfield.
   c) Establish the Mill on the Floss as a characteristic novel of George Eliot.

15x2
End Semester Examination, May 2014
BA (Hons.) ENGLISH – Second Semester
COMMUNICATION SKILLS IN ENGLISH (ENG E-2.1)

Time: 3 hrs
Max Marks: 70
No. of pages: 2

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Answer any five:
   a) What do you mean by communication cycle?
   b) What is formal communication?
   c) What are the different mediums of communication?
   d) How does non-verbal communication reinforce verbal messages?
   e) What are external barriers to communication?
   f) How do barriers to communication affect effective communication?
   g) Define and explain various spaces or zones with examples.
   h) Write short notes on the followings:
      i) Constant Gaze.          ii) Firm hand shake.
      iii) Nodding.              iv) Tapping of feet.
      v) Eye-contact.             vi) Intonation. 3x5

SECTION-B

Q.2 Answer any five:
   a) Explain the seven 'C' of communication.
   b) Differentiate between verbal and non-verbal communication.
   c) Use the following idioms and phrases in sentences of your own so as to bring out their meaning (any five):
      i) A jack of all trades. ii) In a fix.
      iii) Good for Nothing. iv) Up to the mark.
      v) To nip in the bud.  vi) Underdog.
   d) Fill in the blanks by selecting appropriate words given in the brackets:
      i) No _______ (dessert / desert) was served after the dinner.
      ii) He failed to _______ (put on / put across) his message appropriately.
      iii) She did not _______ (turn down / turn up) for the concert.
      iv) The morning showers _______ (held back / held up) the cricket match for some times.
      v) His brother has _______ (given to / given up) gambling.
   e) Use each of the following words in two separate sentences, first as noun and then as verb (any five):
   f) Bring out the difference of the meanings for following words given in the pairs by using each of them in two different sentences (any five):
      i) Adopt, Adapt.          ii) Check, Cheque.
      iii) Carrier, Career.     iv) Assent, Ascent.
      v) Cite, Site.            vi) Medal, Meddle.
   g) Spot the error in the following sentences and rewrite the sentences after correcting those errors (any five):
      i) The people of rural areas are simpler than urban areas.

P. T. O.
ii) None of the two friends worked hard.
iii) I already left for the office when my boss rang up me.
iv) This chair’s two legs are broken.
v) Neither he helps his parents by money nor by any other means.
vi) Orange grows on a tree.
h) Make sentences of each of the following foreign words so as to bring out their meanings *(any five):*
   i) Agenda.  
   ii) Bouquet.  
   iii) Debacle.  
   iv) Prima-face.  
   v) Sabotage.  
   vi) Sans.  

**SECTION-C**

Q.3 Answer *any two:*

a) Write a letter to the Director, Sport of your university requesting him to provide more sports facility within the campus.

b) “We should abandon our nuclear programme in the light of its potential threat.” – Write a debate in favor or against this statement about 300 words.

c) Expand *any one* of the following ideas in about 300 words:
   i) Time and tide waits for no one.
   ii) A friend in need is a friend indeed.
End Semester Examination, May 2014  
BA (Hons.) ENGLISH – Second Semester  
ELIZABETHAN DRAMA (ENG-2.2)

Time: 3 hrs  
Max Marks: 70  
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Attempt any five questions:
   Explain with reference to the context:
   a) ______ it is twice blest:
      It blesseth him that gives and him that takes.
   b) ______ but thou, thou meager lead,
      Which rather threaten'st than dost promise aught,
      Thy plainness moves me more than eloquence,
   c) A day in April never came so sweet
      To show how costly summer was at hand.
   d) What art thou, Faustus? Wretch, what hast thou done?
      Damned art thou, Faustus, damned; despair and die!
   e) O, what a world of profit and delight
      Of power, of honour, of omnipotence,
      Is promised to the studious artizan!
   f) We cannot be suffered
      To do good, when we have a mind to it.
   g) Cover her face. Mine eyes dazzle:
      She d’id young.
   h) A politician is the devil’s quilted anvil;
      He fashions all sins on him, and the blows
      Are never heard;

   3x5

SECTION-B

Q.2 Answer any five of the following questions:
   a) What is the dramatic importance of elopement of Jessica in the Merchant of Venice?
   b) What is the importance of three casks in the dramatic design of the Merchant of Venice?
   c) How does Portia turn the table against shylock in Act IV, Scene I of the Merchant of Venice?
   d) Bring out the dramatic significance of the good Angel and the Evil Angel in Doctor Faustus.
   e) Appraise in brief the dramatic significance of the closing scene in Doctor Faustus.
   f) The dramatic significance of the nativity horoscope in the Duchess of Malfi.
   g) Appraise Bosola as a mole.
   h) Discuss briefly the love-hate relationship between Julia and the Cardinal in the Duchess of Malfi.

   5x5

SECTION-C

Q.3 Answer any two of the following:
   a) Discuss the salient features of Portia. How far do you agree that the Shakespeare’s comedies have only heroines and no heroes?
   b) Discuss Doctor Faustus as morality play.
   c) Appraise the character of Duchess of Malfi. Do you agree that she is more sinned against than sinning?

   15x2
End Semester Examination, May 2014  
BA (Hons.) ENGLISH – Second Semester  
WOMEN’S WRITING IN NINETEENTH AND TWENTIETH CENTURY  
(ENG-2.3)  

Time: 3 hrs  
Max Marks: 70  
No. of pages: 2  

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.  

SECTION A  

Q.1 Explain with reference to the context (any five out of which g and h are compulsory):  
a) Because I could not stop for death,  
   He kindly stopped for me;  
   The carriage held but just ourselves  
   And Immortality.  
b) Elysium is as far as to  
   The very nearest room  
   If in that room a friend await  
   Felicity or doom  
c) And then a plank in reason, broke  
   And I dropped down, and down  
   And hit a world, at very plunge,  
   And finished knowing-then—  
d) The soul selects her own society—  
   Then-shuts the door—  
   To her divine majority—  
   Obrude no more—  
e) Nor had I time to love—  
   But since  
   Some industry must be—  
   The little toil of love—  
   I thought  
   Be large enough for Me—  
f) What fortitude the soul contains  
   That it can so endure  
   The accent of a coming foot—  
   The opening of a door—  
g) In me she has drowned a young girl, and in me an old woman  
   Rises toward her day after day, like a terrible fish.  
h) I?  
   I walk alone;  
   The midnight street  
   Spins itself from under my feet;  
   When my eyes shut  
   These dreaming houses all snuff out;  
   Through a whim of mine  
   Over gables the moon’s celestial onion  
   Hangs high.
**SECTION-B**

Q.2 Answer *any five* of the following questions:
   a) How does the word 'funeral' describe the turmoil in the mind of the speaker in 'I felt a funeral in my brain'? Explain with reference to the poem.
   b) What is the contribution of Emily Dickinson to the nineteenth century American poetry?
   c) Prepare a brief write up on the lessons a 'mirror' by Sylvia Plath can teach us.
   d) "Mahasweta Devi writes for suppressed and suffereing humanity". Justify with reference to 'Draupadi'.
   e) What are the various thematic concerns of the story 'Bliss' by Katherine Mansfield?
   f) Throw light on the theme of parental love in 'Aurora Leigh' by E.B. Browning.
   g) What picture of Sylvia Plath do you get after reading her poem Lady Lazarus?
   h) Justify the title of the story 'Bliss'.

**SECTION-C**

Q.3 Answer *any two* of the following questions:
   a) Throw light on the theme of death in Emily Dickinson's poetry.
   b) Write a detailed note on Sylvia Plath as a confessional poet citing examples from the poem you've read.
   c) Write down E.B Browning's view on metaphysical motherhood of love in *Aurora Leigh* book V". 
End Semester Examination, May 2014  
BA (Hons.) ENGLISH – Second Semester  
ELEGY AND SATIRE (ENG-2.4)  

Time: 3 hrs  
Max Marks: 70  
No. of pages: 2  

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Answer any five of the following short question:
   Explain with reference to the context:
   a) "The bulk of your Natives, to be the most pernicious Race of little odious Vermins that Nature ever suffered to crawl upon the surface of the earth."
   b) And I plainly protested that I would never be an instrument of bringing a free brave people into slavery.
   c) Beneath those rugged elms, that yew-tree’s shade,  
      Where heaves the turf in many a mouldering heap,  
      Each in his narrow cell for ever laid,  
      The rude forefathers of the hamlet sleep.
   d) Full many a gem of purest serene,  
      The dark unfathomed caves of ocean bear:  
      Full many a flower is born to blush unseen  
      And waste its sweetness on the desert air.
   e) The curfew tolls the knell of parting day,  
      The lowing herd wind slowly over the lea,  
      The ploughman homeward plods his weary way,  
      And leaves the world to darkness and to me.
   f) Tho’ grief and fondness in my breast rebel,  
      When injured THALES bids the town farewell,  
      Yet still my calmer thoughts his choice commend,  
      I praise the hermit, but regret the friend.
   g) Let observation with extensive view,  
      Survey mankind, from China to Peru;  
      Remark each anxious toil, each eager strife,  
      And watch the busy scenes of crowded life.
   h) "Twos on a lofty vase’s side,  
      Where China’s gayest art had dyed the pensive Selima reclined.

   Gazed on the lake below.  

3x5

SECTION-B

Q.2 Answer any five of the following questions:
   a) Bring out the fairy-tale elements of Gulliver’s Travels.
   b) Focus on the reasons of conflict between the states of Lilliput and Blefuscu.
   c) Do you agree with the view that Swift has gone too far in developing and sensationalizing the theme of bestiality of human nature in the fourth book of Gulliver’s Travels?
   d) Ode on the Death of a Favourite Cat as a mock-heroic poem.
   e) Write a note on The Epitaph in the Elegy written in a Country Churchyard.

P. T. O.
f) What is a satire? Apply some of the salient feature of a satire on any one poem of either Thomas Gray or Samuel Johnson.
g) Critically appraise Ode on the Death of Favourite Cat.
h) The Vanity of Human Wishes as a moral dissertation.

SECTION-C

Q.3 Answer any two of the following:
a) How do you agree with T.S. Eliot that Swift as a satirist is a "master of disgust"?
b) What is an elegy? Bring out the elegiac note in the Elegy Written in Country Churchyard.
c) Dilate on the vanities of human wishes Dr. Samuel Johnson discusses in the poem.
End Semester Examination, May 2014
BA (Hons.) ENGLISH – Second Semester
CLASSICAL LITERATURE (ENG-2.5)

Time: 3 hrs
Max Marks: 70
No. of pages: 1

Note: Question paper has three sections A, B and C. All sections are compulsory. Marks are indicated against each question.

SECTION-A

Q.1 Explain with reference to the context any five the following questions:
  a) Look Shakuntala, the Jasmine that you named Vana-Jyotsini, has chosen the mango as her bridegroom.
  b) With rounded breasts concealed by cloth of bark fastened at the shoulder in a fine knot, her youthful form enfolded like a flower in its pale leafy sheath unfolds not its glory.
  c) Her lovely eyes rove following the hovering bee close to her face; she knits her brows practicing already playful glances though not in love – but fear.
  d) Even after I was told that Sarva-Damana’s amulet did not turn immediately into a serpent, I was afraid to believe that good fortune would greet me again. But I do remember Misakesi mentioning something that hinted at just such a possibility.
  e) How admirable! His person radiates such majesty yet one feels at ease. But that is not surprising in a king who is almost a sage.
  f) "Twas Vidura who foresaw it all,

In days long past, with his wisdom and spirit
The great danger that slays the seed of the barons,
It looms now for man, who is powerless.

  g) I know that the game will bring disaster.
  h) There are three, who own no property,

A student, a slave, a dependent woman:
The wife of a slave, you are his now, my dear;
A masterless slave wench, you are now slave wealth.

3x5

SECTION-B

Q.2 Answer any five of the following questions:
  a) Appraise Shakuntala as goddess/lady of nature.
  b) Explain Dushyanta as a Royal Sage.
  c) Enumerate the sentiments (rasa) with their dominant states (sthayibhava).
  d) Define Apsara, and appraise Shakuntala as a daughter of Apsara.
  e) Who wrote the Mahabharata, and what is his actual name? The literal literary meaning of his name.
  f) Do you agree that the game of Dice is a Lila to settle the issue which could otherwise have been settled through war?
  g) Vyāsa explains to Yudhishtira three kinds of portents-celestial, atmospheric and terrestrial. Explain.
  h) Explain Dicing and the Sequel to the Dicing.

5x5

SECTION-C

Q.3 Answer any Two of the following questions:
  a) Appraise the context of the Game of Dice.
  b) Analyze the dramatic significance of the ring motif in Abhijnana Shakuntalam.
  c) "He has embraced the worldly life that all must lead to be of use to the world: he too practices the yoga of protection and garners for himself each day the purest merit of holy rites: with all passions under perfect control and controlling the world’s Righteous Way.” Appraise these lines vis-à-vis the king as a Royal Sage.

15x2
Manav Rachna International University
End Semester Examination, May-2014
BJMC - First Semester
INDIAN GOVERNMENT AND POLITICS (BJ-101)

Time: 3 Hours
Max Marks: 80
No. of Pages: 2

Note: Q. No.1 is compulsory. Attempt any five questions from Part-A and any two questions from Part-B.

Q.1 Explain any ten of the following:
(1.5X10=15)

(i) What do you mean by Coalition Government?
(ii) What do you mean by Secular state?
(iii) What do you mean by Federalism?
(iv) Write any two benefits of Reservation.
(v) Give any two reasons of communal riots.
(vi) Write the name of any two National Parties of India.
(vii) Who is speaker of Lok Sabha?
(viii) Who is the chairperson of Election Commission?
(ix) India is a democratic country. True/false
(x) Supreme Court of India is situated at Mumbai. True /False
(xi) Aam Admi Party is a National Party. True/False
(xii) Dr. Manmohan Singh is the supreme commander of Indian Armed Forces. True/False

Q.2 (a) How many members are in Rajya Sabha?
(b) Which party has a majority in Rajya Sabha?
(c) What is the role of the Rajya Sabha?

Q.3 (a) Explain the concept of 'Federalism'.
(b) What is the significance of the Federal system in India?
(c) What are the advantages of the Federal system?

Q.4 (a) What is the concept of 'Secularism'?
(b) Why is it important for a country to adopt Secularism?
(c) Give an example of Secularism in action in India.

Q.5 (a) Explain the concept of 'Coalition Government'.
(b) What are the advantages of a Coalition Government?
(c) Give an example of a Coalition Government in India.

Q.6 (a) Write any two benefits of Reservation.
(b) What are the main objectives of Reservation?
(c) How has Reservation been implemented in India?

Q.7 (a) Give any two reasons of communal riots.
(b) What are the factors that lead to communal riots?
(c) How can communal riots be prevented?

Q.8 (a) Write the name of any two National Parties of India.
(b) What are the main objectives of National Parties?
(c) How do National Parties influence the political landscape in India?

Q.9 (a) Who is speaker of Lok Sabha?
(b) What are the powers of the speaker of Lok Sabha?
(c) Who was the Speaker of Lok Sabha in the last term?

Q.10 (a) Who is the chairperson of Election Commission?
(b) What are the responsibilities of the Election Commission?
(c) How is the chairperson of Election Commission appointed?

Q.11 (a) India is a democratic country. True/false
(b) What are the main features of democracy?
(c) How does democracy differ from other systems of governance?

Q.12 (a) Supreme Court of India is situated at Mumbai. True /False
(b) What are the functions of the Supreme Court?
(c) Who are the judges of the Supreme Court?

Q.13 (a) Aam Admi Party is a National Party. True/False
(b) What is the significance of the Aam Admi Party in Indian politics?
(c) How has the Aam Admi Party influenced Indian politics?

Q.14 (a) Dr. Manmohan Singh is the supreme commander of Indian Armed Forces. True/False
(b) Who is the current supreme commander of the Indian Armed Forces?
(c) What are the responsibilities of the supreme commander?
(ivx) Who is the President of BJP?
 Bharat ka prāṣṭr kānna hū?  

(xv) What is the tenure of Lok Sabha?
 lōk sahā ka kārṣṭramāla kītana vārsh hōtā hū?

PART-A
Write briefly about any five of the following.

(6X5=30)

Q.2 What is the meaning of single citizenship? Discuss in details.

Q.3 What are the salient features of India constitution?

Q.4 Discuss the socio-political movement of India.

Q.5 Explain the political party system of India.

Q.6 What are the duties of Election Commission of India?

Q.7 What is the eligibility criteria for the post of Governor of Indian State?

Q.8 What do you mean by Panchayati Raj?

Q.9 Write the structure Indian Parliament.

PART-B
Answer any two of the following:

(17.5X2=35)

Q.10 What do you mean by Fundamental Rights and Fundamental Duties? How are they interrelated?

Q.11. What are the eligibility criteria for the post of President of India? Write the power of President of the India?

Q.12 Discuss the structure of Planning Commission of India. What are the basic responsibilities of Planning Commission?

Yojana aapēna kē dānē pēr vārsh kērē. Yojana aapēna kē jīmēdērīvēna pēr prakāsh dālēhī.
MANAV RAGHNA INTERNATIONAL UNIVERSITY
End Semester Examination, May -2014
BJMC - I Semester
INDIAN SOCIETY AND ECONOMY (BJ-102)

Time: 3 Hours
Max. Marks: 80
No. of pages: 02

Note: Q. No.1 is compulsory. Attempt any five questions from Part-A and any two questions from Part-B.

Q.1 Attempt any ten of the following:

(i) Who is known as the father of Nation?
    राष्ट्र पिता के तौर पर जिसे जाना जाता है?

(ii) What do you mean by culture?
    संस्कृति से आप क्या समझते हैं?

(iii) What is Female feticide?
    कृप्यापूजन हरण क्या है?

(iv) What do you mean by women empowerment?
    महिला सशक्तिकरण से आप क्या समझते हैं?

(v) What is co-education?
    सह शिक्षा क्या है?

(vi) Name the holy book of Christian?
    ईसाई की पवित्र पुस्तक क्या है?

(vii) What do you mean by budget?
    बजट से आप क्या समझते हैं?

(viii) 'Ragini' is a popular folk song of which state?
    राजस्थान के प्रसिद्ध लोकगीत क्या है?

(x) Who founded the Arya Samaj?
    आर्य समाज की स्थापना किसने किया?

(xi) What do you mean by primary activity?
    प्राथमिक कार्य से आप क्या समझते हैं?

(xii) Who composed the famous song 'Vandematram'?
    वंदेमातरंग गीत किसने लिखा?

(xiii) What do you mean by tax?
    कर से आप क्या समझते हैं?

(xiv) What do you mean by FDI?
    विदेशी आय से आप क्या समझते हैं?
PART-A

Answer any five of the following:

Q.2) Critically examine the features of the caste system in India.

Q.3) What are the merits of urbanization?

Q.4) Discuss the features of Indian Society?

Q.5) Write a short note on Indian Renaissance movement?

Q.6) Write a short note on Poverty.

Q.7) What are the causes of violence against women?

Q.8) Write a note on unemployment.

Q.9) What are the features of Indian Freedom movement?

(6X5=30)

PART-B

Answer any two of the following:

Q.10) Write an essay on women empowerment.

Q.11) What is the role of public and private sectors in development of Indian economy?

Q.12) Write a detailed note on Bhakti movement.

(17.5X2=35)
MANAV RACHNA INTERNATIONAL UNIVERSITY
End-Semester Examination, May-2014
BJMC- I Semester
Introduction to Communication and Media (BJ-103) Re-appear

Time: 3 Hours
Max. Marks: 80
No. of Pages: 2

Note: Q. No.1 is compulsory. Attempt any five questions from Part-A and any two questions from Part-B.

Q.1 Attempt any ten of the following:

(1.5X10=15)

a. Define mass communication.
   जनसंचार को परिभाषित करें।

b. Name any two national news agencies.
   किसी दो राष्ट्रीय न्यूज एजेंसियों के नाम बताएं

c. In which year television came to India?
   भारत में टेलीविजन किस वर्ष आया?

d. AFP stands for __________________
   एफ पी से क्या तात्पर्य है?

e. What is a blog?
   ब्लॉग क्या है?

f. Radio is an audio visual medium of communication. (True/False)
   रेडियो संचार का आудियो एवं विज्ञात साधन है (सही/गलत)

g. Cinema is not a medium of communication. (True/False)
   सिनेमा संचार का साधन नहीं है (सही/गलत)

h. Give any two disadvantages of internet.
   इंटरनेट के कोई दो अवसर बताएं।

i. Who coined the term ‘Global Village’?
   ‘ग्लोबल वाल्य’ को किसने दिया?

j. Give two examples of interpersonal communication
   आत्मात्मात्मत्व संचार के दो उदाहरण दें।

k. Name any two sports magazines.
   किसी दो स्पोर्ट्स मैगजीन का नाम बताएं.

l. Define infotainment.
   इन्फोटेन्मेन्ट को परिभाषित करें।

m. In which year Yuva Vani Started?
   युवा वाणी किस वर्ष में आरंभ हुआ?

n. In which year radio came to India?
PART-A
Answer any five of the following:
किन्ही पांच प्रश्नों का उत्तर दें (6X5=30)

Q2 Discuss the functions of communication in detail.

Q3 Write a short note on advantages of internet.

Q4 Write a short note on non verbal communication.

Q5 What do you understand by group communication? Explain.

Q6 Write a short note on history of Television.

Q7 What do you mean by Target audience? Explain.

Q8 Write a short note on News agency.

Q9 Discuss the process of communication in detail.

PART-B
Answer any two of the following:
किन्ही दो प्रश्नों का उत्तर दें। (17.5X2=35)

Q10 ‘Effective Communication is the key to success’. Elaborate.

Q11 What is communication? Discuss the various types of communication with suitable examples.

Q12 Write a detailed note on the future and scope of magazine in India.
MANAV RACHNA INTERNATIONAL UNIVERSITY
End-Semester Examination, May- 2014
BJMC- I Semester
Basic Language Skills (BJ-104)

Time: 3 Hours
Max Marks: 80

Note: Q. No. 1 is compulsory. Attempt any five from Part A and two questions from Part B

1. Answer any ten of the following questions and selecting at least three from each group.
   (1 ½ marks each X 10 = 15 Marks)

A Correct the following Sentences:

   a) do she play?
   b) He is to poor to buy it.
   c) She is one of the best student of the class.
   d) It has been raining for five pm.
   e) He is a best student of his class.
   f) Why do he sleep in the evening?
   g) They are good on this work.
   h) They laughs at other
   i) He is to busy.
   j) Why did he not completed his work?
   k) I live at New Delhi.
   l) How many students is there?
   m) It seem nice.

B. Write Out the Verb Patterns in respect of the following sentences:

   a) Is he playing?
   b) He completed the work.
   c) They went market.
   d) He is hard working.
   e) She goes to college daily.

Part A

Answer any five of the following. (6 marks each X 5 = 30 Marks)

   a) Define feature.
b) Clarity and concession

c) Ideas and content

d) Nut paragraph

e) Transition

f) Economy of words

g) Business letter

h) Types of essay

Part B

Answer any two of the following. (17 ½ marks each $X$ 2 = 35 Marks)

1. What are the basic principles of writing?
2. Discuss the concept of news in detail. What are the different types of news? Explain with suitable examples.
3. Why do we need resume/CV? Prepare a resume for the job you are applying for.
Q. 1 Attempt any ten of the following:

(1X10=10)

a) When was Press Council of India constituted?
   भारतीय प्रेस परिषद का गठन कब हुआ?

b) Who started “Sambad Kaumudi”?
   समबाद कौमुडी की शुरुआत किसने की?

c) Who is regarded as Father of Indian Journalism?
   भारतीय पत्रकारिता के जनक कौन माना जाता है?

d) Lord bentinck was associated with which social movement in India?
   लाउड बेंटिन्क किस सामाजिक आंदोलन से साथ जुड़े थे?

e) In which year East India Company was established in India?
   उत्तरी इंडिया कंपनी किस वर्ष भारत में स्थापित हुई थी?

f) Who was the first editor of The Hindustan Times?
   द हिंदुस्तान टाइम्स के पहले सामान्यक कौन थे?

g) Who started the newspaper Anand Bazaar Patrika?
   आनंद बाजार पत्रिका अखबार की शुरुआत किसने की?
h) Who is the Chief Justice of India?
भारत के मुख्य न्यायाधीश कौन है?

i) What do you mean by Interest Group?
इंटरेस्ट ग्रुप से आप क्या समझते है?

j) Name any two newspapers started by Mahatma Gandhi.
महात्मा गांधी द्वारा शुरू किये गए किसी भी दो समाचारपत्रों का नाम बताएं

k) Who is the chairperson of Censor Board of India?
भारत में सेंसर बोर्ड के अध्यक्ष कौन है?

l) What do you mean by Yellow Journalism?
पीत पत्रकारिता से आप क्या समझते है?

m) In which year Radio was started in India?
भारत में रेडियो की सुरुवात कब हुई थी?

n) Who is regarded as the pioneer of American Journalism?
अमेरिकी पत्रकारिता में अर्थयों के रूप में बोलने जाते है?

o) Why Alam Ara is famous?
आलम आरा प्रसिद्ध क्यों है?

PART-A

Q.2. Answer any five of the following:

किसी पांच प्रश्नों का उत्तर दीजिए (5x5=25)

a) Write a short note on Advertising Guidelines.
विज्ञापन दिशा निर्देशों पर एक संक्षिप्त नोट लिखें

b) Write a short note on Indian Press Ordinance of 1930 and Rowlatt Act.
1930 की भारतीय प्रेस अधिनियम तथा रॉललट एक्ट पर एक संक्षिप्त नोट लिखें

c) Explain brief history of American Journalism.
अमेरिकी पत्रकारिता के इतिहास को संक्षिप्त में समझाए

d) Define Interest/Pressure group’s. Discuss their relevance in media.
इंटरेस्ट / प्रेशर ग्रुप क्या है तथा मीडिया में इसकी प्रायोगिकता पर चर्चा करें

e) Briefly discuss the meaning and types of Printing Press.
प्रिंटिङ प्रेस के अर्थ और प्रकारों की संक्षिप्त में चर्चा करें

f) Throw light on Convergence Bill and its shortcomings.
(17.5 \times 2 = 35)

PART-B

Answer any two of the following:

किन्ही दो प्रश्नों के उत्तर दें।

a) Write a descriptive note on defamation.

b) Explain the history of Television and Radio in detail. Discuss their impact on communication revolution of India.

c) Discuss the pre and post independence status of Newspapers in India.
Q.1 Explain any ten of the following very briefly

(1x10=10)

किसी भी दस प्रश्नों का उत्तर दीजिए:

(i) When was Non-Aligned Movement started?

(ii) Kargil war was happened in the year of ............

(iii) Who is considered as the most influential person in determining the foreign policy of India?

(iv) The UNEP contributes to development in Environment. (True/False)

(v) WIPO is a regional organization. (True/False)

(vi) Germany is NOT a permanent member of the UN Security Council. (True/False)

(vii) The people of East Pakistan declared themselves independent in April 1971. (True/False)

(viii) Where is the headquarters of SAARC situated?

(ix) What is full form of ASEAN?

(x) When was OPEC formed?

(xi) Who is the President of USA?

(xii) How many countries are the members of SAARC?

(xiii) India is member of Common Wealth? True/False

(xiv) Name the countries who were involved in Cold War.
PART-A

Write briefly about any five of the following. (5X5=25)

Q.2) Write the basic objectives of SAARC.

Q.3) What were the effects of the 9/11 attacks?

Q.4) What were the causes of the Gulf War?

Q.5) What are the reasons for an intense relation between US and Iran?

Q.6) Write a short notes on Russia-Chechnya issues.

Q.7) What were the cause of the conflict between China and Tibet?


Q.9) What are the failures of Non Aligned Movement?

PART-B

Answer any two of the following: (17.5X2=35)

Q.11) What is the basic features of Indian foreign policy? Describe the Indian relation with USA.


Q.13) What were the causes of the Sri Lankan civil war? Is the LTTE game over?
Q. No. 1 is compulsory. Attempt any five questions from Part-A and any two questions from Part-B.

Q.1 Answer any ten of the following MCQ, each carry one mark: (1x10=10)

(i) The first computer was programmed using
   A) Assembly Language   B) Machine Language
   C) Spaghetti Code      D) Source Code

   प्रथम कंप्यूटर निर्माण भाषा का उपयोग कर प्रोग्राम किया गया था
   ए) असेम्ब्ली भाषा       भी) मशीन भाषा
   सी) स्पेगेटी कोड        छी) सॉर्स कोड

(ii) The number of Function Keys in a key board is....
   A) 14          B) 13          C) 12          D) 10

   एक की बोर्ड में फंक्शन कीज की संख्या है ....
   ए) 14           भी) 13         सी) 12         छी) 10

(iii) Programs written in an assembly language are converted into machine language in a computer by...
   A) Assembler        B) Compiler
   C) Processor        D) Interpreter

   कंप्यूटर में असेम्ब्ली भाषा में लिखा एक धारा मशीन भाषा में परिवर्तित करता हैं ...
   ए) असेम्ब्लर        भी) कंप्लाईटर
   सी) प्रोसेसर        छी) इंटरप्रिटर

(iv) Oracle is a/an...
   A) An operating system B) Word processor
   C) Database software   D) None of these

   ओरेकल है एक .......
   ए) एक ऑपरेटिंग सिस्टम भी) वर्ड प्रोसेसर
   सी) डेटाबेस सोफ्टवेयर छी) इनमे से कोई नहीं

(v) Processing involves....
   A) Inputting data into a computer system  B) Transforming input into output
   C) Displaying output is a useful manner
   द) Providing relevant answer

   ए) एक कंप्यूटर सिस्टम में डेटा डालना       भी) इनपुट को आउटपुट में बदलने को
   सी) उपादण का प्रदर्शन एक उपयोगी तरीका है       छी) प्रासंगिक उत्तर प्रदान

(vi) A computations and logical operations are performed by the...
A) RAM  B) ALU  C) ROM  D) Control Unit
एक संगणना और तार्किक कार्यवाही पूरी की जाती हैं ...:
ए) रेम  बी) एल यू  सी) रोम  डी) नियंत्रण इकाइयाँ

(vii) Computer connected to a LAN can ....
A) Run faster  B) Share information and / or share peripheral equipment  
C) E-mail  D) Go online
एक लैन से जुड़ा कंप्यूटर .... कर सकता है।
ए) तेजी से रन  बी) जानकारी साझा करने और / या परिशील उपकरण साझा 
सी) ई मेल  डी) ऑनलाइन

(viii) A DNS translates a domain name into what?
A) Binary  B) Hex  C) IP  D) URL
एक डीएनएस डोमेन नाम का अनुवाद निष्प्रा में से किसम करता है?
ए) दिचपर  बी) हेक्स  सी) आईपी  डी) यूआरएल

(ix) First calculating device is....
A) Clock  B) Difference Engine  C) Calculator  D) Abacus
पहला गणना यंत्र है....
ए) घड़ी  बी) डिफरेंस इंजन  सी) कैलकुलेटर  डी) अबाकस

(x) In .......topology, network components are connected by only one cable.
A) Star  B) Ring  C) Bus  D) Mesh
...... टॉपोलॉजी, नेटवर्क के हिस्से एक ही केबल से जुड़े हुए होते हैं।
ए) स्टार  बी) रिंग  सी) बस  डी) मेष

(xi) A ......... is set of rules.
A) Resource Locator  B) Domain  C) Hyper Text  D) Protocol
एक ......... नियमों का सेट है।
ए) रिसोसेस लोकेटर  बी) डोमेन  सी) हाइपर टेक्स्ट  डी) प्रोटोकॉल

(xii) In Excel, workbook is a collection of
A) Workbooks  B) Worksheets  C) Charts  D) None of the above
एक्सेल में, कार्पोरल एक संचार है
ए) कार्पोरल कार्पोरल का  बी) कार्पोरल का 
सी) छाद का  डी) उपरोक्त में से कोई नहीं

(xiii) A device which sends data by telephone is...
A) Modem  B) Monitor  C) O.C.R.  D) Mouse
जो टेलीफोन के द्वारा डेटा भेजता है, एक युक्ति है ...
ए) मोडम  बी) मोटिउर  सी) ऑ. सी. आर.  डी) माउस

(xiv) ..................computer is a combination of analog and digital computer.
.....................कंप्यूटर एनालॉग और डिजिटल कंप्यूटर का एक संयोजन है।

(xv) HTML stands for....
एच एल एम एच एच एच टैग एच एच एच हैं ...
(xvi) COBOL stands for ... कोबोल शब्द का तात्पर्य है ...
(xvii) EDSAC stands for... एडसेसक शब्द का तात्पर्य है ...

PART-A

Write briefly about any five of the following, each carry four marks: (4X5=20)

निम्न में से कोई पांच करें

Q. 2. Write short notes on the followings:
   (i) Electronic mail
   (ii) Video conferencing
   (iii) Internet News Group
   (iv) URL
   निम्न पर तात्पर्य लिखें:
   (i) इलेक्ट्रॉनिक मेल
   (ii) वीडियो कॉन्फ्रेंसिंग
   (iii) इंटरनेट समाचार समूह
   (iv) यूनार्टेल

Q. 3. What is Information? Mention any four applications of IT.
   सूचना क्या है? आईटी के चार बहुत अनुप्रयोग का उल्लेख करें।

Q. 4. Describe the mode of data transmission in a channel with suitable example.
   उपयुक्त उदाहरण के साथ एक चेनल में आंकड़ा संचयन के तरीके का वर्णन करें।

Q. 5. Convert the followings:
   (i) Decimal Number 5710 into Binary Number.
   (ii) Binary Number 1001012 into Decimal Number.
   निम्न लिखित को परिवर्तित करें:
   (i) द्वारा संख्या 5710 को बाइनरी संख्या में
   (ii) बाइनरी संख्या 1001012 को द्वारा संख्या में

   एक नेटवर्क में स्टार टोपोलॉजी से आप क्या समझते हैं? स्टार टोपोलॉजी के लाभ बताएं।

Q. 7. Describe the origin of Internet. What are the benefits of internet?
   इंटरनेट की उद्गार का वर्णन करें। इंटरनेट के लाभ फायदे क्या हैं?

Q. 8. Explain the various types of views in MS Word.
   मिस वर्ड में विभिन्न दृष्टिकोण के बारे में बताएं।

Q. 9. Write down the name and function of the tools available in the Adobe PageMaker tool box.
   एडोब पेज मेकर के उपकरण बॉक्स में उपलब्ध उपकरणों के नाम एवं उसके कार्य लिखें।
PART-B

Answer any two of the following, each carry ten marks: \[10 \times 2 = 20\]

किन्ही दो के उत्तर दो.

Q.10. Differentiate the followings:
(i) Primary Memory and Secondary Memory
(ii) Hardware and Software
(iii) System Software and Application Software
(iv) Save and Save as

लिखित में अंतर स्पष्ट करे:
(i) प्राथमिक स्मृति और द्वितीयक स्मृति
(ii) हार्डवेयर और सॉफ्टवेयर
(iii) सिस्टम सॉफ्टवेयर और अनुप्रयोग सॉफ्टवेयर
(iv) सेव और सेव ऐज

Q.11. Write any five output devices and explain in detail about the CRT monitor.

किसी भी पांच आउटपुट डिवाइस का नाम लिखें और सी एच टी मोनिटर के बारे में विस्तार से समझाएं।

Q.12. What is QuarkXpress? Write down the name and function of the tools available in QuarkXpress 7.2 tool palette.

क्या एक्सप्रेस क्या है? क्या एक्सप्रेस 7.2 उपकरण पृष्ठी में उपलब्ध उपकरणों के नाम और कार्य का लिखे।
1. Answer any ten of the following questions and selecting at least three from each group. 
   \[(1 \times 10 = 10)\]
   a. What do you mean by Baloon?
   बॉल या ब्लुन क्या है?
   b. What is Masthead?
   मस्टहेड क्या है?
   c. What is Gutter?
   गटर क्या है?
   d. Who is the editor of Hindi daily newspaper Amar Ujala?
   हिंदी दैनिक आंबर उजाला के संपादक कौन है?
   e. What do you mean by caption?
   कैप्शन से आप क्या समझते है?
   f. What is Banner?
   बैनर क्या है?
   g. What is Tabloid?
   टेब्लॉइड क्या है?
   h. What do you mean by ‘Fourth Estate’?
   फोर्थ एसटेट से आप क्या समझते है?
   i. City office of a newspaper is known as……
   किशी अखबार के सिटी ऑफिस को.........रूप में जाना जाता है?
   j. UNI stands for……
   यूएनआई से तात्पर्य है........
   k. What is Print line?
   प्रिंट लाइन क्या है?
   l. What do you know about Joseph Pulitzer?
   जोसेफ पुलिटजर के बारे में आप क्या जानते है?
   m. Who is the editor of the English Newspaper ‘Mail Today’?
   इंग्लिश न्यूजपेपर ‘मैल आज’ के संपादक कौन है?
   n. Desk of a newspaper is headed by……
   किशी अखबार के डेस्क ऑफिस का प्रमुख कौन होता है?
   o. What is AP?
   एपी क्या है?
PART-A
Answer any five of the following:
किसी पांच प्रश्न का उत्तर दी ।  
(4X5=20)

2. What are the different types of news? Explain with suitable examples.
समाचार के प्रमुख प्रकार क्या हैं? उपयुक्त उदाहरण सहित व्याख्या करें।

3. Discuss the concept of Breaking News.
ब्रेकिंग न्यूज के अपनायन की चर्चा करें।

4. Write a short note on investigative and interpretative reporting.
विश्लेषणीय और उपशासकीय रिपोर्टिंग का एक छोटा नोट लिखें।

5. What are the qualities of a sub editor?
किसी उपसमाप्तक के क्या गुण होते हैं?

6. Write a short note on feature writing.
विचित्र लेखन पर संक्षेप लिखें।

7. What are the techniques of news analysis?
समाचार विश्लेषण की तकनीकें क्या हैं?

8. What is editing? Discuss about the various elements of editing.
संपादन क्या हैं? संपादन के विभिन्न तत्वों की चर्चा करें।

9. How do we structure hard news?
हार्ड न्यूज की संरचना हमें कैसे करते हैं?

PART-B
Answer any two of the following:
किसी दो प्रश्न के उत्तर दी ।  
(10X2=20)

1. "Reporter is considered as the backbone of media industry". Explain the statement with special reference to the qualities of a reporter.
"रिपोर्टर की मौलिक भूमिका की रीढ़ मानी जाती है। रिपोर्टर के गुणों के संदर्भ में इस कहने की व्याख्या करें।

2. What is news value? What are the main criteria for determining news?
समाचार मूल्य क्या हैं? समाचार निर्धारण के मुख्य तत्व क्या हैं?

3. Write a feature on any topic of your interest.
अपनी रचना के किसी विषय पर विचार स्तंभ
Q.1 Attempt any ten of the following:

(1X10=10)

a) Define Communication.

b) What do you understand by decoding?

(c) Give two examples of non verbal communication.

(d) Name any two traditional forms of communication.

(e) What is interpersonal communication?

(f) What do you understand by edutainment?

(g) Define feedback.

(h) What do you understand by Kinesis?

(i) Cultivation Theory was propounded by......................

(j) What is mass media?

(k) What do you mean by intercultural communication?

(l) In communication sender encodes the message. (True/False)

(m) Body language is a part of verbal communication. (True/False)

(n) What do you mean by effective communication?

(o) Define mass communication.
PART-A
Answer any five of the following:
किन्हीं पांच प्रश्नों का उत्तर दें
(5X5=25)
Q2. Discuss in detail the bullet theory of communication.
संचार के बुलेट सिद्धांत पर विस्तार से चर्चा करें.
Q3 Discuss the barriers of communication in detail.
संचार के बाधाओं पर एक विस्तारपूर्वक चर्चा करें.
Q4. Write a short note on non verbal communication.
मौखिक संचार पर एक संक्षिप्त नोट लिखें.
Q5. Write a short note on the seven C’s of communication.
संचार के सात C से पर एक संक्षिप्त नोट लिखें.
Q6. Explain briefly the Osgood model of communication.
संक्षेप में संचार की ओस्गूड मॉडल की व्याख्या करें.
Q7. Write a short note on two step flow theory of communication.
दो चरण फ्लो सिद्धांत पर एक संक्षिप्त नोट लिखें.
Q8. With the help of a diagram discuss the process of communication in detail.
रेखाचित्र के माध्यम से संचार प्रक्रिया की विस्तारपूर्वक चर्चा करें.
Q9. Distinguish between interpersonal and intrapersonal communication.
अंतःपरिवारिक एवं अंत:परिवारिक संचार के बीच में स्पष्ट करें.

PART-B
Answer any two of the following:
किन्हीं दो प्रश्नों का उत्तर दें
(17.5X2=35)
Q10. Communication plays an important role in the development of a society”. Discuss in detail.
‘संचार समाज के विकास में एक महत्वपूर्ण भूमिका निभाता है” . विस्तार से चर्चा करें.
Q11. With the help of diagram discuss laswell model of communication.
रेखाचित्र के माध्यम से संचार के लसवेल सिद्धांत की व्याख्या करें.
Q12. Discuss in detail the selective exposure and selective perception theory of communication.
संचार के चयनीय एक्सपोजर एवं चयनीय विशेषता सिद्धांत की विस्तारपूर्वक व्याख्या करें.
Q. 1 Attempt any ten questions. (1x10 = 10)

a) The abbreviation AIDCA stands for what?
AIDCA क्या है?

b) Write any two qualities of an Account executive.
खाते के कार्यकर्ता के किसी भी दो गुण लिखें.

c) Write down any one definition on advertising.
विज्ञापन की कोई एक परिभाषा लिखें.

d) What do you mean by research in advertising?
विज्ञापन में अनुसंधान से आप क्या समझते हैं?

e) What do you mean by POP?
पी ऑ बी से आप क्या समझते हैं?

f) Who is known as the father of Public Relations?
पब्लिक रिलेशन्स के जनक के रूप में कौन जाना जाता है?

g) What do you mean by public opinion?
जनता से आप क्या समझते हैं?

h) Define Public Relations.
जनसमूह को परिभाषित करें.

i) What are the four P’s of marketing mix?
सिर्फ चार पी क्या हैं?

j) What do you mean by press briefing?
प्रेस ब्रीफिंग से आप क्या समझते हैं?

k) What is a Press kit?
प्रेस किट क्या है?

l) Name any two Public relations agency of India.
भारत के किसी भी दो बड़े पब्लिक रिलेशन्स एजेंसियों का नाम लिखें.

m) Name the first newspaper of India.
भारत के प्रथम समाचार पत्र का नाम लिखें.

P. T. O.
n) What do you mean by Media buying?
मीडिया बिक्री से आप क्या समझते है?
o) ‘Piyo Sar Utha Ke’ is the punchline of which company?
‘चिप्स सर उठा के’ किस कंपनी की पंजवाला है?

PART-A
Answer any five of the following:

2. किसी एक प्रश्न का उत्तर दे (5x5=25)

a) Write a brief note on the various departments of an advertising agency.

विज्ञापन एजेंसी के विभिन्न विभागों पर एक संक्षिप्त नोट लिखें?

b) Write the role of an advertising professional in a media organization.

संगठन में एक पीआर पेशेवर की भूमिका लिखें.

c) Prepare an advertising script for Television.

टेलीविजन के लिए एक विज्ञापन की स्क्रिप्ट तैयार करें.

d) Briefly discuss the types of advertising appeals.

विज्ञापन अपीलों पर संक्षेप से चर्चा करें.

e) Define copy and write down the rules of copy writing for advertising.

प्रतिलिपि को परिभाषित करें और कॉपी लिखने के नियम लिखें.

f) Write a short note on Internal and External public of public relations.

पब्लिक सिलेंस की अंतरिक और बाहर जनता पर एक संक्षिप्त नोट लिखें.

g) Briefly discuss the role of Public Relations in private sector.

संस्कृति में सार्वजनिक क्षेत्र में जलसमर्पण की भूमिका पर चर्चा करें.

h) Write a short note on the code of ethics of advertising in India.

विज्ञापन के लिए आधार संहिता पर एक संक्षिप्त नोट लिखें.

PART-B
Answer any two of the following (17.5x2=35)

3. किसी दो प्रश्नों का उत्तर दे |

a) Discuss in detail the historical growth and development of Advertising in India.

भारत में विज्ञापन के प्राचीन वृद्धि और विकास पर विस्तार पुर्वक चर्चा करें.

b) “Importance of public relations is increasing day by day”. Discuss

"जनता के संबंधों का महत्व प्रत्येक दिन बढ़ता जा रहा है" चर्चा करें.

c) Define advertising and write a descriptive note on the various departments of an

विज्ञापन को परिभाषित करें और विज्ञापन एजेंसी के विभिन्न विभागों पर एक वर्णनात्मक नोट

लिखें?
Q.1 Attempt any ten questions.
(1X10=10)

a) Who is the Director of the recently released movie ‘Gulab Gang’?
हाल ही में आरी फिल्म ‘गुलाब गैंग’ के निर्देशक कौन है?

b) Who is the present chairman of Press council of India?
वर्तमान में भारतीय प्रेस परिषद के अध्यक्ष कौन है?

c) What is the punchline of Hindustan Times?
हिन्दुस्तान टाइम्स की पंचलाइन क्या है?

d) What is the punchline of AAj Tak?
आजतक की पंचलाइन क्या है?

e) Write the full form of ABP News?
एबीपी न्यूज का पूरा विस्तार लिखें?

f) Narendra Modi is the chief minister of which Indian state?
नरेंद्र मोदी किस राज्य के मुख्यमंत्री है?

g) Name the chief minister who was in office for 49 days recently?
हाल ही में 49 दिनों के लिए कौन मुख्यमंत्री था?

h) What do you mean by media ethics?
मीडिया नैतिकता से आप क्या समझते हैं?

i) In which year and by whom RTI was introduced in India?
भारत में आरटीआई कब और किसके द्वारा लाया गया?

j) What is Jan Lokpal Bill?
जन लोकपाल बिल क्या है?

k) What do you mean by CSR?
सीएसआर से आप क्या समझते हैं?

l) What do you mean by ‘objectification of women’ in media?
मीडिया में महिलाओं के प्रस्तुतिकरण से आप क्या समझते हैं?

m) Name any two folk forms of North India?
उत्तर भारत के किसी भी दो लोक कलाओं के नाम लिखें?

n) Who is the I&B minister in UPA-II.
संग्रह द्वितीय में सूचना एवं प्रसारण मंत्री कौन है?

o) The abbreviation NDA and UPA stands for what?
NDA और UPA का पूरा विस्तार लिखें?
Q.1 Attempt any ten of the following: (1X10=10)

a) Give any two examples of corporate event.

b) What is informal event?

c) Define event evaluation.

d) Give any two examples of formal event.

e) Name the 5 C’s of event.

f) Write any two advantages of using an event management company.

g) What do you mean by press conference?

h) Sponsors play an important role in an event. (True/False)

i) Name any two elements of an event.

j) What is planning?

k) Give two advantages of account keeping.

l) Event management is one of the fastest growing industries. (True/False)

m) What is risk management?

n) Hospitality is one of the publicity tools. (True/False)

o) Name any two qualities of an event manager.

PART-A
Answer any five of the following:
किसी पांच प्रश्न का उत्तर दें (5x5=25)

Q2. What are the various key elements of an event?
किसी इवेंट के विभिन्न तत्वों की चर्चा करें.

Q3. Write a short note on event budget and account keeping.
इवेंट बजट एवं एकाउंट कीपिंग पर एक संशोधन दिशांक लिखें.

Q4. Define publicity. Discuss the various publicity tools.
प्रचार की भूमिका की उल्लेख करें हालांकि के विभिन्न तकनीकों का उल्लेख करें.

Q5. Write a short note on advantages of planning.
निर्णायक के लाभों पर एक संशोधन हिस्तोरी लिखें.

Q6. Discuss the various roles and qualities of an event Manager.
एक इवेंट प्रबंधक की मूल्यांकन एवं गुणों की चर्चा करें.

Q7. Write a short note on trade fair.
व्यापार मेला पर लघु दिशांक लिखें.

Q8. Write a short note on importance and scope of event management.
इवेंट प्रबंधन के महत्व एवं क्षेत्र पर लघु दिशांक करें.

Q9. Discuss in role of media in promotion of an event.
किसी इवेंट के प्रोमोशन में मीडिया की भूमिका की चर्चा करें.

PART-B
Answer any two of the following:
किसी दो प्रश्न का उत्तर दें (17.5x2=35)

Q10. Discuss in detail the various steps of planning process of an event.
किसी इवेंट के निर्माण प्रक्रिया की विभिन्न धरणों की विस्तारपूर्वक चर्चा करें.

Q11. Discuss the various areas of event evaluation in detail.
इवेंट मूल्यांकन के विभिन्न क्षेत्रों की विस्तारपूर्वक चर्चा करें.

Q12. What is event? Discuss the various types of event with examples.
इवेंट क्या है? इवेंट के विभिन्न प्रकारों की संदर्भात्मक चर्चा करें.
End Semester Examination, May 2014
BJMC –IV Semester
Communication and Development (BJ-403)

Q.1 Attempt any ten questions. (1X10=10)

a) What do you mean by E-Chou pal?
   ई चाउ पाल से आप क्या समझते है?

b) The abbreviation NABARD stands for what?
   नाबार्ड क्या है?

c) What do you mean by Third World?
   तीसरी दुनिया से आप क्या समझते है?

d) What do you mean by rural development?
   वाणीपरिवार से आप क्या समझते है?

e) “Dominant paradigm of development” concept was developed by whom in the year 1960?
   1960 में “विकास का प्रमुख प्रतिमान” किसके द्वारा विकसित किया गया था?

f) Define New Paradigm.
   नए प्रतिमान को परिभाषित करें?

g) What do you mean by Cyber Space?
   साइबर अंतरिक्ष से आप क्या समझते है?

h) The abbreviation ICT4D and GNP stands for what?
   संक्षिप्त आई सी टी 4 डी और जीपीएन क्या है?

i) Who is Nora Quebral?
   नोरा क्वेब्राल कौन है?

j) What is the definition of Denis McQuail on communication?
   संचार पर डेनिस म्क्वेयल की परिभाषा क्या है?

k) “Diffusion of innovations” theory was poised by whom?
   “नवाचारों का प्रसार” सिद्धांत किसके द्वारा स्थापित किया गया था?

l) Folk forms of communication are used for development communication. True/False

P. T. O.
PART-A

Answer any five of the following:

2. किसी पंच श्रेणी का उत्तर दे (5X5=25)

a) “Participatory approach is key to any development” Discuss.

"भागीदारी दृष्टिकोण किसी भी विकास के लिए महत्वपूर्ण है“ घोषणा करें.

b) Write a short note on Cyber media.

साइबर मीडिया पर एक संक्षिप्त नोट लिखें.

c) Write a brief note on Street play and discuss the importance of street play in development communication.

न्यूकपड नाटक पर एक संक्षिप्त नोट लिखें और विकास संचार में न्यूकपड नाटक के महत्व पर व्याख्या करें.

d) “The development of any nation depends on women empowerment”. Justify the statement with suitable examples.

"किसी भी राष्ट्र का विकास महिलाएँ सशक्तिकरण पर निर्भर करता है“. उपयुक्त उदाहरणों के साथ बनाया गया साहसिक सारणी करें.

e) Write a brief note on poverty and unemployment in India.

भारत में गरीबी और वैद्युत नौकरी पर एक संक्षिप्त नोट लिखें.

f) Discuss in detail the diffusion of innovations theory.

विस्तार में वितरण सिद्धांत के प्रसार पर चर्चा करें.

g) Write a short note on the role of internet in India.

भारत में इंटरनेट की महत्वपूर्ण पर एक संक्षिप्त नोट लिखें.

h) Define rural development and discuss the problems related to it.

ग्रामीण विकास को परिभाषित करें और इस से संबंधित समस्याओं पर चर्चा करें.
PART-B

Answer any two of the following

3. किन्हीं दो प्रश्नों के उत्तर दे।

(17.5X2=35)

a) Define development communication and discuss in detail the importance of traditional media and new media in development communication.

विकास संचार को परिभाषित करें और विस्तार से विकास संचार में पारंपरिक मीडिया और नए मीडिया के महत्व पर चर्चा करें।

b) Information and communication technology has a greater role to play in both rural and urban development. Explain

सूचना और संचार प्रौद्योगिकी के शारीरिक और शहरी दोनों के विकास में एक बड़ी भूमिका है। चर्चा करें।

c) What do you mean by survey? Prepare a questionnaire on the impact of Television on children.

सर्वेक्षण से आप क्या समझते हैं? बच्चों पर टेलीविजन के प्रभाव पर एक प्रश्नावली तैयार करें।
Q.1 Attempt any ten of the following: (1X10=10)

(i) What is byline?
बाइलाइन क्या है?

(ii) What do you mean by PTI?
पी.टी.आई से आप क्या समझते हैं?

(iii) What is AFP?
ए एफपी क्या है?

(iv) Who is the editor of the Hindi daily newspaper ‘The Indian Express’?
हिन्दी दैनिक समाचार पत्र इंडियन एक्सप्रेस के संपादक कौन है?

(v) What do you know about Bengal Gazette?
बंगाल गजेट के बारे में आप क्या जानते हैं?

(vi) What is UNI?
यू.एन.आई क्या है?

(vii) Who is known as the father of Indian Journalism?
भारतीय पत्रकारिता को जनता किसे माना जाता है?

(viii) What is Dateline?
डेटलाइन क्या है?

(ix) Name three magazines that are published for women.
महिलाओं के लिए प्रकाशित होने वाले तीन पत्रकारिता का नाम बताएं

(x) Who is the editor of the English magazine ‘Outlook’?
अंग्रेजी पत्रकार ऑउटलुक के संपादक कौन है?

(xi) Name three sports magazine of India.
तीन भारतीय स्पोर्ट्स पत्रकारिता का नाम बताएं.

(xii) What do you mean by stringer?
स्ट्रिंगर से आप क्या समझते हैं?

(xiii) What do you know about Joseph Pulitzer?
जोसेफ पुलिट्जर के बारे में आप क्या जानते हैं?

(xiv) What is print line?
प्रिंट लाइन क्या है?

(xv) When was paper invented in China?
पेपर का आविष्कार कब हुआ था?
PART-A

Answer any five of the following:

कितनी पांच प्रश्नों का उत्तर दीं 

1. Discuss the different types of news.
   समाचार के विभिन्न प्रकार की चर्चा करें.
2. Discuss the hierarchy of the bureau of a newspaper.
   एक अखबार के ब्यूरो के पदानुक्रम पर चर्चा करें.
3. What are the features of magazine journalism?
   मैगजीन पत्रकारिता की विशेषताएं क्या हैं?
4. Discuss the qualities of a sub editor.
   एक उपसंपादक के गुणों की चर्चा करें.
5. What are the various types of magazines?
   पत्रिकाओं के विभिन्न प्रकार क्या हैं?
6. What are the basic differences between newspaper and magazine?
   समाचारपत्र और मैगजीन में दूसरी वजह अंतर क्या है?
7. Write a short note on the importance of lay out in print media.
   प्रिंट मीडिया में लेट ऑउट के महत्व पर चर्चा करें.
8. Write a short note on the recent trends in print media industry.
   प्रिंट मीडिया स्तर में हुई नई प्रवृत्तियों पर लघु रिपोर्ट करें.

PART-B

Answer any two of the following:

कितनी दो प्रश्नों का उत्तर दीं 

   भारतीय स्वतंत्रता संग्राम में अखबार के योगदान के विशेष रूप से भारत में प्रिंट मीडिया के विकास पर 
   विश्वसनीय लघु रिपोर्ट करें.
12. What are the elements of editorial writing? Discuss in detail.
    समापक लेखन के यंत्र तत्त्व क्या हैं? संपादकीय लेखन के विकास पर चर्चा करें.
13. What is feature? Discuss the importance of feature writing for magazines.
    फीचर व्यवस्था क्या है? मैगजीन के फीचर लेखन के महत्व की चर्चा करें.
Q. 1 Attempt any ten questions. (1X10=10)

a) Define Information Super Highway.

b) What do you mean by Affiliate marketing?

c) A world of blogs is known as _______.

 d) Citizen Journalism is also known as _______.

 e) What do you mean by Digital Gap?

 f) What do you mean by editing?

 g) Write the Full form of BARC.

 h) ‘Ram Leela’ is a form of New Media or Traditional Media.

 i) Name any two cyber crimes.

 j) Name any two Mobile Apps which are related to information and entertainment.

 k) What is Audio Conferencing?

 l) What do you mean by Multimedia?

 m) Name any two online Newspapers of India.

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P. T. O.
n) What do you mean by E-Commerce?
ई वाणिज्य से आय या समाज के लिए क्या?

o) Define E-Governance.
ई गवर्नेंस को परिभाषित करें

PART-A

Q2. Answer any five of the following:
किसी पांच प्रश्न का उत्तर दें (5X5=25)

a) Write a short note on the role of social networking sites.
सामाजिक नेटवर्किंग साइट की भूमिका पर एक संक्षिप्त नोट लिखें.

b) Discuss in detail the concept of convergent Journalism.
कन्वर्गेंट पत्रकारिता की अवधारणा पर विस्तार से चर्चा करें.

c) Explain in detail the technological changes in the Media field.
मीडिया क्षेत्र में तकनीकी परिवर्तन के बारे में विस्तार से बताएं।

d) Write a short note on the impact of Online Journalism
ऑनलाइन पत्रकारिता के प्रभाव पर एक संक्षिप्त नोट लिखें।

e) Examine the role of Internet in civil society and social movements in India.
भारत में सिविल सोसाइटी और सामाजिक आंदोलनों में इंटरनेट की भूमिका का परीक्षण कीजिए।

f) Distinguish between Online and Traditional Journalism.
ऑनलाइन और पारंपरिक पत्रकारिता के बीच अंतर है।

g) Write a brief note on the value addition services of mobile phones.
मोबाइल फोन का मूल्य संवर्धन सेवाओं पर एक संक्षिप्त नोट लिखें

h) Write a brief note on National Telecommunication Policy of 1994.
राष्ट्रीय दूरसंचार नीति (1994) पर एक संक्षिप्त नोट लिखें

PART-B

Q3. Answer any two of the following:
किसी दो प्रश्न का उत्तर दें। (17.5X2=35)

a) Write a descriptive note on the growth and development of New Media in India.
भारत में न्यू मीडिया की वृद्धि और विकास के ऊपर वर्णनात्मक नोट लिखें.

b) Discuss in detail the advantages and disadvantages of cyber media and its effect on the society.
साइबर मीडिया के कार्यकाल और नुकसान पर विस्तार से चर्चा करें और समाज पर इसके प्रभाव के बारे में लिखें.

c) “Social Media: A Stimulating Force of Social Change” Justify the statement with suitable examples.
“सामाजिक मीडिया: सामाजिक परिवर्तन की एक उत्सुकता बल” उपयुक्त उदाहरण के साथ व्याख्या सिद्ध करें।
Q.1 Attempt any ten questions. (1X10=10)

a) Name any two functions of a manager.

b) What is puppetry?
   कांटपुटली क्या है?

c) AP stands for
   ए पी से ताल्पर्य है?

d) All India Radio is a division of Prasar Bharti. (True or False)
   अल इंडिया रेडियो प्रसार भारती की एक विभाग है (सत्य| समस्त)

e) What is tabloid?
   टैबलीड क्या है?

f) DDI Stands for
   एफ डी आई से ताल्पर्य है?

g) TRP stands for
   टीआरपी क्या है?

h) What is Community Radio?
   सार्वजनिक रेडियो क्या है?

i) Name the oldest news agency.
   सबसे पुराने समाचार एजेंसी का नाम बताएं.

j) SITE stands for
   साइट से ताल्पर्य है?

k) Name any two folk dance form of India.
   भारत के किसी दो लोकनृत्य का नाम लिखें.

l) What is promo?
   प्रोमो क्या है?

m) Name any two forms of traditional media.
   परंपरागत मीडिया के किसी भी दो रूपों के नाम बताएं.

n) PCR stands for
   पी आर सी क्या है?

o) What is blog?
   ब्लॉग क्या है?
PART-A
Answer any five of the following:
(5X5=25)

2. Write a short note on FDI.
एक दी आई पर संक्षिप्त दिखावी लिखें.

3. Discuss the role and responsibilities of a media manager.
किसी मीडिया प्रबंधक की भूमिका एवं जिम्मेदारियों की चर्चा करें.

4. Write a short note on FII in print industry.
प्रिंट मीडिया में एक दी आई पर संक्षिप्त दिखावी लिखें.

5. Discuss the various types of newspaper organizations of India.
भारत में समाचार समाज के विभिन्न प्रकार की चर्चा करें.

6. Write a short note on community radio.
समुदाय के रेडियो पर एक संक्षिप्त दिखावी लिखें.

7. Write a short note on news agency.
न्यूज एजेंसी पर संक्षिप्त दिखावी लिखें.

8. Discuss the recent trends in broadcasting management.
ब्राइकिंग स्टेट्स प्रबंधन के हाल की रूपरेखा की चर्चा करें.

9. Write a short note traditional media.
परंपरागत मीडिया पर संक्षिप्त दिखावी लिखें.

PART-B
Answer any two of the following:
(17.5X2=35)

1. Discuss in detail the ownership patterns of mass media in India.
भारत के मास मीडिया के स्वामित्व प्रणाली की चर्चा करें.

2. Write a detailed note on problems and prospects of newspaper industry in India.
भारत में समाचारपत्रीय उद्योग के समस्याओं एवं समस्याओं पर विस्तृत दिखावी लिखें.

3. Discuss the principles of media management and its significance in detail.
मीडिया प्रबंधन के सिद्धांत एवं इनके महत्व की विस्तारपूर्वक चर्चा करें.
Q. 1 Attempt any ten of the following: (1X10=10)

a) What is FCP?
एफ ई सी पी क्या है?

b) What do you mean by White Balance?
बाइट बैलेंस से आप क्या समझते है?

c) Who was Khushwant Singh?
खुशवंत सिंह कौन थे?

d) Name any two sister concerns of Economic Times.
इकनॉमिक टाइम्स की किसी दो सहसम्बन्धी संस्थाओं का नाम बताएं

e) What is Breaking News?
ब्रेकिंग न्यूज़ क्या है?

f) What do you mean by Undercover Reporting?
अंडरक्वार्ड पत्रकारिता से आप क्या समझते है?

g) What is Slug?
स्लूग क्या है?

h) Who is the chairperson of National Commission of women?
राष्ट्रीय महिला आयोग की प्रमुख कौन है?

i) Who is the Editor-in Chief of Times Now?
टाइम्स नॉव के प्रमुख संपादक कौन है?

j) Who is the chairperson of Censor Board
PART-A

Answer any five of the following:

(5x5=25)

1. Discuss the role and responsibilities of a Reporter.

2. Write a short note on Citizen Journalism.

3. Explain the utility of PCR and ENPS in television news.

4. Explain the structure of Input and Output desk.

5. What is Investigative Journalism? Discuss its role in media industry.

6. Discuss the role of Panel Producer in television programming.

7. Explain different types of P to C. discuss the steps one should keep in mind while doing it.
PART-B

Answer any two of the following:

किसी दो प्रश्नों के उत्तर दे । (17.5×2=35)

A. Explain various technical departments of television and discuss the role of each department in detail.

B. Explain in detail the vocabulary used in television programme production.

C. Discuss about the various stages of programme production and its essentials.
PART-B

Answer any two of the following:

किस्मती दो प्रश्नों के उत्तर दे ।

A. Explain various technical departments of television and discuss the role of each department in detail.

B. Explain in detail the vocabulary used in television programme production.

C. Discuss about the various stages of programme production and its essentials.
End Semester Examination, May 2014  
BCA -First Semester  
COMPUTER FUNDAMENTALS AND PROGRAMMING IN 'C'  
(BCA-101)  

Time: 3 hrs  Max Marks: 75  
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) The Octal system uses the power of:  
   i) 2  ii) 10  iii) 8  iv) 16  
b) The single character input/output functions are:  
   i) scanf and printf  
   ii) getchar() and putchar()  
   iii) None of the above  
c) The symbol used in Assemble language is:  
   i) Mnemonic code  ii) Assembler  iii) None of the above  
d) Which symbol is used as terminator?  
   i) Semicolon  ii) Hash  iii) Tilde  iv) None of the above  
e) The two operators != and == are  
   i) Arithmetic  ii) Relational  iii) Logical  
f) The computer that process both analog and digital is called _______.  
g) _______ is an ordered set of homogeneous elements.  
h) Magnetic disks are the most popular medium for _______.  
i) If a function does not return any value, the return type must be declared as _______.  
j) _______ is a finite number of accurate, unambiguous steps that solve a problem or task.

1½x10

UNIT-I

Q.2  
a) Convert the following: (1)₂ = (?)₁₆ = (7)₈ = (96.125)₁₀  
b) What is computer? What capabilities does a computer process?

Q.3  
a) Write a short note on character codes.  
b) Explain the functioning of digital computer with block diagram.  
c) Define: Software, Hardware, Firmware.

UNIT-II

Q.4  
Define flowchart. Draw a flowchart and write the algorithm to generate the Fibonacci series up to n terms.

Q.5  
a) Discuss ROM, PROM and EEPROM.  
b) What is debugging?  
c) What is programming style? Discuss the guidelines for a good programming style.

UNIT-III

Q.6  
a) "C supports a rich set of operators". Justify with example.  
b) Compare entry-controlled and exit-controlled.

Q.7  
a) What is a variable? Discuss the rules for naming a variable. Explain with example.  
b) Discuss the structure of a 'C' program.

P. T. O.
Q.8  
   a) What are pointers? Why are they needed? Explain with an example.  
   b) Why an array is called a derived data type?  
   c) What would be the contents of the following array after initialization?  
      \[ a[5] = \{5, 3, 7\} \]  

Q.9  
   a) Write a short note on recursion.  
   b) Explain the following string handling functions:  
      i) strcat( )  
      ii) strcpy( )  
      iii) strlen( )  
      iv) strcmp( )  

P. T. O.
End Semester Examination, May 2014  
BCA - First Semester  
ELEMENTS OF MATHEMATICS (BCA-102)  

Time: 3 hrs  
Max Marks: 75  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. **Q.1 is compulsory.** All questions carry equal marks.

Q.1  

a) The general term of a A.P. is:  
i) \( T_n = a + (n-1)d \)  
ii) \( T_n = 2a + (n-1)d \)  
iii) \( T_n = \frac{n}{2}[a + (n-1)d] \)  
iv) \( T_n = \frac{n}{2}[2a + (n-1)d] \)  

b) Let \( A = \{1, 2, 3, \ldots, 8, 9\} \) and \( B = \{3, 5, 7, 9\} \). Which of the following statements is correct?  
i) \( A \cap B = \{2, 4, 6\} \)  
ii) \( A \cap B = B \)  
iii) \( A \cap B = \{2, 4, 6, 8\} \)  
iv) None of these  

c) Let \( U = \{1, 2, 3, \ldots, 8, 9\} \) and \( A = \{1, 3, 5, 7\} \). Then \( A' \) is:  
i) \( A' = \{2, 4, 6, 8\} \)  
ii) \( A' = \{2, 4, 6, 8, 9\} \)  
iii) \( A' = \{2, 4, 6\} \)  
iv) \( A' = \{9\} \)  

d) Let \( R = \{(1,3),(4,2),(2,3),(3,1)\} \) be a relation on the set \( A = \{1, 2, 3, 4\} \). The relation \( R \) is:  
i) A function  
ii) Transitive  
iii) Not symmetric  
iv) Reflexive  

e) A set consisting of a definite number of elements is called a:  
i) Null set  
ii) Singleton set  
iii) Infinite set  
iv) Finite set  

f) If \( A, B, C \) are any 3 sets, then \( A \times (B \cap C) \) is equal to:  
i) \( (A \times B) \cup (A \times C) \)  
ii) \( (A \times B) \cap (A \times C) \)  
iii) \( (A \cap B) \times (A \cap C) \)  
iv) None of these  

g) \( \log \frac{3}{6} \)  
i) 5  
ii) 3  
iii) 8  
iv) 2  

h) If one card is drawn from a standard deck of 52 playing cards. What is the probability of drawing a heart?  
i) \( \frac{1}{4} \)  
ii) \( \frac{1}{2} \)  
iii) \( \frac{3}{4} \)  
iv) 1  

i) The expression \((1-\cos \theta)(1+\cos \theta)\) is equivalent to:  
i) 1  
ii) Sec \(^2\theta \)  
iii) Sin \(^2\theta \)  
iv) Cos \(^2\theta \)  

j) Differentiate \( y = x^9 \).  
i) \( \frac{dy}{dx} = x^8 \)  
ii) \( \frac{dy}{dx} = 9x^9 \)  
iii) \( \frac{dy}{dx} = \frac{x^{10}}{10} \)  
iv) \( \frac{dy}{dx} = 8x^9 \)  

UNIT-I  

Q.2  

a) In a survey of 25 students, it was found that 15 had taken mathematics, 12 had taken physics and 11 had taken chemistry, 5 had taken mathematics and chemistry, 9 had taken mathematics and physics, 4 had taken physics and chemistry and 3 had taken all the three subjects. Find the number of students that had...

P. T. O.
i) Physics, chemistry but not maths.
ii) Only one of the subjects.
iii) Atleast one of the 3 subjects.
iv) None of the subjects.

v) Only chemistry.

b) The third term of an A.P. is 25 and the 10th term is -3. Find the first term and common differences.

Q.3
a) The sum of three nos. in A.P. is 15. If 1,4 and 19 are added to the nos. the resulting nos. are in G.P. Find the nos.

b) If \( A = \{1, 2, 3\} \) and \( B = \{4, 5\} \), then show that \( A \times B \neq B \times A \).

c) Let \( A = \{2, 3, 4\} \) and \( B = \{3, 6, 8\} \). Find \( R \) in the relation \( 'x' \) divides \( y' \) from set \( A \) to set \( B \). Also find \( R^{-1} \).

UNIT-II

Q.4
a) Prove that:
\[
\frac{\sin(x+y)}{\sin(x-y)} = \frac{\tan x + \tan y}{\tan x - \tan y}
\]

b) If \( \log \frac{x+y}{7} = \frac{1}{2} (\log x + \log y) \), prove that \( \frac{x+y}{x} = 47 \).

Q.5
a) From a well shuffled deck of 52 cards, a card is drawn at random. Find the probability of getting:

i) An ace

ii) A heart

iii) A face card

iv) A red card

v) A Jack

b) Find the value of \( \log_{128} \).

UNIT-III

Q.6
a) \( \lim_{x \to a} \frac{x^3 - a^3}{x + a} = a \), Find the values of a.

Q.7
a) If \( y = \sqrt{x} - \frac{1}{\sqrt{x}} \), show that \( \frac{2xy}{dx} > 2\sqrt{x} - y \).

b) For what values of k is the following function continuous at \( x = 2 \).

\[
f(x) = \begin{cases} 
  x^2 - 4 & x \neq 2 \\
  x - 2 & x = 2 
\end{cases}
\]

UNIT-IV

Q.8
a) Evaluate: \( \int \frac{x^4 + 1}{x^2 + 1} \) dx.

b) Solve the differential equation \( \frac{xy}{dx} = 2 \).

Q.9
a) Show that the set \( I \) of all integers \( \ldots \ldots \ldots \ldots \ldots -4, -3, -2, -1, 0, 1, 2, 3 \ldots \ldots \ldots \ldots \ldots \) is an abelian group with respect to the operation of addition of integers.

b) Evaluate \( \int \frac{x^2 - 2}{\sqrt{x}} \) dx.
End Semester Examination, May 2014
BCA -First Semester
BUSINESS COMMUNICATION-I (BCA-103)

Time: 3 hrs Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Fill in with suitable prepositions:
   i) She is working ________ a temporary basis.
   ii) This book is different ________ that.
   iii) What shall I do ________ these left over vegetables?
   iv) She died ________ cancer.
   v) I don't want ________ talk to you. 1x5

b) Write plural for the following:
   i) Calf   ii) Hero   iii) Step-son   iv) Foot   v) Story 1x5

c) Rewrite the following sentences after correcting them:
   i) The peoples of India is honest.
   ii) The cattle is grazing in the field.
   iii) He took his shoe and socks off.
   iv) My dad has two sister-in-laws.
   v) Gymnastics are my favorite sport. 1x5

UNIT-I

Q.2 Write / fill in the correct option in the following sentences:
   a) Take this pencil and give ________ (them, it) to Sheena.
   b) Hi, Tom and Sally! When did ________ (we, you) arrive?
   c) ________ exercise in grammar (a/an/the).
   d) ________ honest person (a/an/the).
   e) My job is very ________ (bore).
   f) What a ________ (love) dress!
   g) ________ is the superlative form of good.
   h) Doctor have been operating on him ________ two hours. (for/since)
   i) The servant was washing the dishes. (Change to interrogative form)
   j) They are fighting for the corner seat (Negative sentence)
   k) When we talk about government, MP stands for ________.
   l) We shall serve our country. (Change into passive)
   m) I said, "I will not return your book". ("Change to" Reported speech)
   n) A ________ of thieves (collective noun)
   o) A ________ of directors (Collective noun) 1x15

Q.3 Choose the best word from the option given to complete the following passages.
   a) i) ________ knows the story of Ekalavya. It ii) ________ about the great us
      respect that iii) ________ ordinary tribal boy had for his guru Dronacharya.
      iv) ________ Drona refuses to teach him archery, Ekalavya makes a clay image of
      him v) ________ begins to practice archery in front of it. When Drona comes to
      know about vi) ________ he demands Ekalavya's right thumb as guru dakshina
      (payment for the teacher). Ekalavya immediately draws his sword, cuts
      vii) ________ right thumb and offers it to Drona. Such is his love and respect
      vii) ________ his guru!

P. T. O.
i) a) All   b) Each   c) Everyone   d) Some
ii) a) Told   b) Tell   c) is telling   d) tells
iii) a) The b) an   c) a   d) x
iv) a) When b) Where c) so   d) if
v) a) nor b) and   c) but   d) or
vi) a) These b) those c) this   d) that
vii) a) its b) our   c) your   d) his
viii) a) for b) to c) on   d) from

b) These was once i) ______ rich and kind old man, who ii) ______ the end of his
days decided to leave his possessions to iii) ______ honest and intelligent young
man. Speaking of iv) ______ decision, told a good friend that he wanted to
choose v) ______. The friend advised him, "the next time you sell something,
v) ______ are giving the customer their change make sure you give them too
vii) ______.

UNIT-II

Q.4 a) Microsoft company has come to your campus for placement. Narrate the
interaction between you and the placement guy in arranging for campus interview
for all the students of MRIU. You are the placement officer of MRIU.

b) You have just opened your own computer peripherals company like HCL. You are
asked to address the employees of the organization. Write your address speech in
100-150 words.

UNIT-III

Q.5 a) Suppose you want to organize an inter college cricket tournament in your MRIU
campus, write the conversation between you as a Sports Captain, and the Principal
to make this tournament a great success.

b) What is Communication? What are the steps to be taken to improve your
communication skills?

UNIT-IV

Q.6 Define Personality, its determinants and different types of Personalities.

Q.7 a) Mention the various do's and don'ts that need to be taken care of while speaking
publically.

b) Differentiate between hearing and listening. What are the benefits of effective
listening?

Q.8 a) Design your resume for the post of hardware engineer mentioning your added
skills which will make you eligible for the post.

b) How are telephonic interviews conducted? What needs to be done, to make it a
success?

Q.9 a) How is a person survive the Group Employment Interview i.e. get selected in
group discussion etc?

b) What is an information interview? What is the purpose of such type of interviews?
End Semester Examination, May 2014
BCA - First Semester
PC SOFTWARE (BCA-104)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.

Q.1 a) State True/False
   i) We can call one batch file from another batch file.
   ii) One can format a disk using window explorer.
   iii) The file save command and the save button on the toolbar have different effects.
   iv) Word can check grammar while checking spelling.
   v) To open font dialog box, select font command from the edit menu.
   vi) To remove a particular Tab, select it in the ruler bar and drag it off from the ruler bar.
   vii) The cut, copy and paste commands are located on the formatting toolbar.
   viii) Setting a column width to 0 (zero) can hide a column.
   ix) Excel displays file names of the four or more recently used files in the file menu.
   x) To inset a row after row 5, select row 5 and use inset row command. 1x10

b) Fill in the blanks:
   i) ______ function is used to display the current data and time in cell.
   ii) ^V is equivalent to using the edit ______ command.
   iii) On pressing F8, word displays ______ in the status bar.
   iv) A formula always begins with ______
   v) To save the current document, we can press ______ keys. 1x5

Q.2 a) How file management is done in windows operating system? Explain the functions of windows explorer. 10
   b) Discuss the use of Paintbrush. 5

Q.3 a) How batch files are handled by DOS? Explain with suitable example. 5
   b) Explain the following DOS commands with proper syntax and suitable example:
      i) Prompt      ii) MD       iii) copy      iv) copy con 10

UNIT-II

Q.4 What is mail-merge? Explain step-by-step process to perform mail merge with suitable example. 15

Q.5 Explain the following:
   i) Bookmark.
   ii) Spell and grammar check.
   iii) Header and footer. 5x3

UNIT-III

Q.6 What are the various components of an Excel worksheet? Give brief description of each component. 15

Q.7 Write short note on following:
   a) Relative and absolute cell addressing.
   b) If-function.
   c) Wrap-text. 5x3

UNIT-IV

Q.8 Discuss various methods of applying slide animations and custom animations on your PowerPoint presentations. 15

Q.9 How data formatting is done in PowerPoint presentations. Discuss with suitable example. 15
i. Answer the following questions. (ANY FIVE) (2 marks each)
   1. What are the three types of vowel sounds?
   2. Demonstrate the meaning of "A Few" and "Few"?
   3. What are voiced and unvoiced consonant sound?
   5. What are the types of nouns?
   6. What are fillers?

ii. Underline the consonant sounds in the given words:- (1 mark each)
    Example:-- DATE = /dt/ and /t/.
    1. DEEP
    2. PHONE
    3. CAT
    4. TOPPER
    5. TARGET

iii. Underline the vowel sound in the given words. (1 mark each)
     Example:-- PARK = /ɑː/
     1. KEEP
     2. MAKE
     3. BLOW
     4. DARK
     5. SCHOOL

iv. Fill in the blanks with “a” “an” or “the”:- (1 mark each)
    1. Yesterday, I met ..........., honest policeman.
    2. It was .............. exciting movie.
    3. I spoke to .............. boss about having next Monday off.
    4. Excuse me, have you got .............. time?
    5. She has got a job in .............. university.

v. Change the following sentences into (given in brackets). (1 mark each)
   1. She is dancing. (change into negative).
   2. My parents support me. (change into negative).
   3. I don’t smoke here. (change into positive).
   4. You broke the glass. (change into interrogative).
   5. I will not attend the party tonight. (change into positive).
vi. Fill in the blanks with a suitable determiner, “numbers or ordinals”. (1 mark each)
1. This is the ........... time I am warning you. (second or two)
2. The table has ............. chairs. (four or fourth)
3. She has talking over phone for ............. hours. (six or sixth)
4. Kate was the ............. Prize winner, Larry stood second. (one or first)
5. This is my ............. job. (one or first)

vii. Write the contracted form of the following combinations. (1 mark each)
1. Did + not = ..................
2. Do + not = ..................
3. Can + not = ..................
4. That + is = ..................
5. I + will = ..................

viii. Arrange the words to make sentences :- (1 mark each)
1. Are / a / you / child / ? / good
2. are / pupils / All / present / today
3. In / play / corridor / Don’t / the
4. excellent / You / have / customer / us / with / been / an.
5. I / down / May / ? / sit / please
6. appreciate / patience / I / your

ix. Answer any two of the following question in 50 to 60 words:- (2 marks each)
1. What are your weaknesses?
2. How do you celebrate your birthday?
End Semester Examination, May 2014
BCA - Second Semester
DATA STRUCTURES (BCA-201)

Time: 3 hrs
Max Marks: 75
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blank:
   a) The subscript or the index represents the offset from the beginning of the array to ________.
   b) Data elements in a linked list are known as ________.
   c) Nodes at the same level that share the same parent are called ________.
   d) In a binary tree every node can have maximum ________ successors.
   e) New nodes are added at ________ of queue.

   Multiple choice questions.
   f) An array is a
      i) Random access structure.
      ii) Sequential access structure.
      iii) Both.
      iv) None of the above.
   g) Linked list is used to implement structures such as:
      i) Stacks.
      ii) Queues.
      iii) Trees.
      iv) All of these.
   h) Degree of a leaf node is:
      i) 0
      ii) 1
      iii) 2
      iv) 3
   i) Which function places an element on the stack?
      i) Pop()
      ii) Push()
      iii) Peep()
      iv) Is empty()
   j) Reverse polish notation is the other name of:
      i) Infix expression.
      ii) Prefix expression.
      iii) Postfix expression.
      iv) Topfix expression.

   UNIT-I
   Q.2 a) State the need of data structures. ________
   b) Describe big O’ notation used in algorithm. ________
   c) Give example of linear and non-linear data structures. ________

   Q.3 State the principle of a stack. Discuss the operations involved in stack by giving suitable examples, wherever applicable. Also list two applications of stack in real life. ________

   UNIT-II
   Q.4 a) Construct a binary search tree from the given values. Consider the first value as the root value.
      Values: 45, 23, 29, 85, 92, 7, 11, 35, 49, 51 ________
      b) Discuss the applications of a linked list. ________

   Q.5 Describe the structure and implementation of a linked list with suitable examples. ________

   UNIT-III
   Q.6 Compare quick sort and merge sort with respect to advantages and disadvantages. ________
   Q.7 Discuss the selection sort with the help of a suitable example. ________

   UNIT-IV
   Q.8 What do you mean by a file? What are the constituents of a file? What are the various file operations? ________
   Q.9 Write short notes on:
      a) Hashing functions. ________
      b) Collision handling. ________
End Semester Examination, May 2014
BCA -Second Semester
MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (BCA-202)

Time: 3 hrs Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) Number of elements in the power set of a given set consisting of 6 elements is:
   i) 36  ii) 64  iii) 216  iv) 1296
b) Let $A = \{1,2,3,4\}$. Then the relation
   $R = \{(1,1),(2,2),(3,3),(4,4)\}$
   Defined on the set $A$ is:
   i) Symmetric.
   ii) Anti symmetric.
   iii) Equivalence relation.
   iv) Both equivalence relation and partial order relation.
c) Define countability of a set.
d) Write down recurrence relation for Fibonacci sequence.
e) Area of the triangle formed by the vertices (-1,-1), (5,7) and (8,1) is:
   i) 4 sq. units  ii) 16 sq. units
   iii) Zero sq. units  iv) 32 sq. units
f) Equation of the straight line joining (1,-1) and (0,1) is:
   i) $y = 2x$  ii) $\frac{x}{1} + \frac{y}{1} = 1$
   iii) $x + y = 2 = 0$  iv) $2x + y = 1 = 0$
g) Define a lattice.
h) Which of the following is not a Boolean algebra?
   i) D$_{20}$  ii) D$_{30}$  iii) D$_{56}$  iv) D$_{210}$
i) The number of spanning tree of a complete graph $K_5$ is:
   i) 100  ii) 36  iii) 75  iv) 32
j) Draw a binary tree to represent the algebraic expression:
   \[ a \times b - \{c + (d + e)\} \]

UNIT-I

Q.2  
a) Show by mathematical induction that for $n > 1$,
   \[ 1 + 2 + 3 + \cdots + n = \frac{n(n + 1)}{2} \]
b) Find $s$ and $t$ such that
   \[ \gcd(273,110) = s(273) + t(110) \]

UNIT-II

Q.3  
a) Let $S = \{a,b,c\}$. Draw Hasse-diagram of $(p(s), \subseteq)$, where $p(s)$ denotes power set of $S$ and $\subseteq$ is set inclusion.
b) If 25 books in a library contain a total of 52042 pages, show that one of the books must contain at least 2082 pages.

Q.4  
a) Solve the recurrence relation:
   \[ a_n + 5a_{n-1} + 4a_{n-2} = 0 \]

P.T.O.
b) Find the equation of a straight line passing through the point (1,-2) and cutting off equal intercepts on the axes.
c) Show that the lines $3x + 4y + 7 = 0$ and $28x - 21y + 50 = 0$ are perpendicular.

**Q.5**

a) Find the equation of the line parallel to $3x + 4y + 5 = 0$ and passing through the point (4,-5).
b) Find the equation of the right bisector of the straight line joining $(1,1)$ and $(3,5)$.

**UNIT-III**

**Q.6**

a) Define a distributive lattice. Show that for a set $S$, the lattice $(P(S), \subseteq)$ is distributive.
b) Show that the lattice $D_{30}$ is complemented.

**Q.7**

a) Express $x_1x_2x_3$ in complete sum-of-product form in three variables $x_1, x_2$ and $x_3$.
b) Using Karnaugh map, find the prime implicants and a minimal sum of products form for the Boolean expression $E$ given by:

$$E = xy' + x'y + x'y'.$$

**UNIT-IV**

**Q.8**

a) Discuss seven bridges problem along with its graphical representation.
b) Show that the graph given below is not Hamiltonian:

![Graph](image)

**Q.9**

a) Find the adjacency matrix of the graph:

![Graph](image)

Is this graph strongly connected? Give details.
b) Starting from the point A and using nearest neighbor algorithm, find Hamilton circuit of minimal weight for the graph given below:

![Graph](image)
End Semester Examination, May 2014
BCA -Second Semester
PROGRAMMING IN VISUAL BASIC (BCA-203)

Time: 3 hrs

Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Which of the following is not a part of IDE?
   i) Code editor window
   ii) Properties window
   iii) Form layout window
   iv) General window

b) Code is:
   i) Updateable in the form editor
   ii) Instructions
   iii) Seldom used
   iv) An object

c) Visual basic form are identified by a:
   i) "Frm" suffix
   ii) "mak" suffix
   iii) "For" suffix
   iv) A special icon

d) To run an application in visual basic:
   i) Click on start button
   ii) Use the file menu
   iii) Use the project menu to select run
   iv) None of the above

e) To display current system date function is used.
   i) Now()
   ii) Check()
   iii) Date()
   iv) Time()

f) _______ is used to take the input from user.
   i) Input box
   ii) Textbox
   iii) Msg box
   iv) Both i) and ii)

g) The prefix for naming a menu item is ________
   i) m
   ii) mnu
   iii) men
   iv) mne

h) For loop must be end with:
   i) Next
   ii) End for
   iii) Both of the above
   iv) None of the above

i) When click event in fired?
   i) When any button is clicked
   ii) When mouse is pressed
   iii) When button is clicked for which it is designed
   iv) All of the above

j) RAD stands for:
   i) Random access development
   ii) Rapid access development
   iii) Random application development
   iv) Rapid application development

\[1 \frac{1}{2} \times 10\]

UNIT-I

Q.2 Explain different features of VB in details. 15

Q.3 a) Explain the difference between toolbox and toolbar. 5
   b) Explain strength and weakness of VB in details. 10

UNIT-II

Q.4 a) What do you mean by a variable? How is it different from a constant? Explain through an example. 5
   b) Explain any five string functions with examples. 10

P. T. O.
Q.5 Write a program in VB to find the grade of student on click event of button as per the following criteria:
   Grade S if score > 80
   Grade A if score is between 70 and 80
   Grade B if score between 60 and 70
   Grade C if score between 50 and 60
   Grade F if score is below 50

UNIT-III

Q.6 Explain the difference between following:
   a) Static and dynamic array
   b) MsgBox and input box
   c) Checkbox and option button

Q.7 a) Explain the various ways through which a 'msgbox' can be made attractive.
    b) Explain any five events of command button with an example.

UNIT-IV

Q.8 Explain all the steps that are required to connect a text box on VB form to a field in a table in a database in MS Access.

Q.9 Explain the following:
    a) Adding code to menu
    b) Data report
    c) Error handling
End Semester Examination, May 2014
BCA -Second Semester
DIGITAL DESIGN AND COMPUTER ORGANISATION (BCA-204)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) The format used to present the logic output for the various combinations of logic input to a gate is called:
   i) Boolean constant.
   ii) Boolean variable.
   iii) Truth table.
   iv) Input logic function.

   b) When using even parity, where is the parity bit placed?
      i) Before the MSB.
      ii) After the LSB.
      iii) In the parity word.
      iv) After the odd parity bit.

   c) Which Boolean algebra property allows us to group operands in an expression in any order without affecting the results of the operation? (For example A+B=B+A)
      i) Associative.
      ii) Commutative.
      iii) Boolean.
      iv) Distributive.

   d) The NAND or NOR gates are referenced to as universal gates because they:
      i) Can be found in almost all digital circuits.
      ii) Can be used to build all other types of gates.
      iii) Are used in all countries of the world.
      iv) Are used where the first gates are to be integrated.

   e) How many binary bits are necessary to represent 748 different numbers?
      i) 9
      ii) 7
      iii) 10
      iv) 8

   f) The device which is used to connect a peripheral to bus is called:
      i) Control register.
      ii) Communication protocol.
      iii) Interface.

   g) The number of bits used to share a BCD digit is:
      i) 8
      ii) 4
      iii) 1
      iv) 2

   h) With interrupt driven I/O, if two or more devices request service at the same time:
      i) The device closest to the CPU gets priority.
      ii) The device that is fastest gets priority.
      iii) The device assigned the highest priority is serviced first.
      iv) The system is likely to crash.

   i) CISC machines:
      i) Have fewer instruction than RISC machines.
      ii) Use more RAM than RISC machines.
      iii) Have medium clock speeds.
      iv) None of the above is true.

   j) In immediate addressing the operand is placed:
      i) In the CPU register.
      ii) After opcode in the instruction.
      iii) In memory.
      iv) In stack.

   **UNIT-I**

   Q.2 What are error correction and detection codes? Encode data bits 1110 into a 7 bit even parity Hamming code.

   **P. T. O.**
Q.3  a) Convert the binary number 101101.101101 into decimal, octal and hexadecimal number system.
   b) Write short notes on:
      i) ASCII codes.
      ii) Excess 3 codes.

UNIT-II

Q.4  What are universal gates? Explain.

Q.5  What are canonical forms? Find the other canonical forms for the following expression:
F(A, B, C) = \Sigma (0, 1, 3, 6)
F(X, Y, Z) = \Sigma (2, 3, 6, 7)

UNIT-III

Q.6  Explain instruction format? What are the various type of instruction format? Discuss them with suitable example.

Q.7  Write short notes on:
   a) RISC v/s CISC.
   b) Memory hierarchy.

UNIT-IV

Q.8  Write short notes on:
   a) Isolated v/s memory mapped I/O.
   b) I/O versus memory bus.
   c) I/O interface.

Q.9  a) Compare and contrast DMA programmed I/O and interrupt driven I/O.
   b) What are handshaking signals? Explain the handshake control of data transfer during input and output operations.
End Semester Examination, May 2014
BCA -Second Semester
ENVIRONMENTAL STUDIES (BCA-206)

Time: 3 hrs
Max Marks: 50
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Name any four non-conventional sources of energy.
b) Give an example of a nuclear accident.
c) Which gas in the atmosphere causes acid rain?
d) Name some trees considered sacred by Indians.
e) Draw a food chain and a food web.
f) World environment day is celebrated on _______.
Expand the following:
(g) UNESCO
(h) WWF
(i) CNG
(j) WHO

UNIT-I

Q.2 a) How is polythene an environmental hazard?
b) List the important factors of soil conservation.

Q.3 "Environmental studies are a multi-disciplinary project" Comment.

UNIT-II

Q.4 a) How is the food web better than a food chain?
b) Write a note on detritus food chain.

Q.5 Discuss various causes, effects and control measures of urban and industrial wastes.

UNIT-III

Q.6 Write explanatory notes on:
a) Water conservation.
b) Resettlement and rehabilitation of people.

Q.7 What is acid rain? Describe its causes and effects. Can acid rain be cured?

UNIT-IV

Q.8 What is Water (Prevention and Control of Pollution) ACT? Discuss various functions of
the Central and the State Boards enlisted under this Act.

Q.9 What is meant by the term 'Environmental legislation'? Explain various issues involved
in the enforcement of environmental legislation.
End Semester Examination, May 2014
BCA II Semester
English Language Proficiency-II

Max Marks: 75

<table>
<thead>
<tr>
<th>Time - 3 Hrs</th>
</tr>
</thead>
</table>

i. **Answer the following questions. (ANY TEN)**  
(3 marks each)

1. What is a syllable? How many syllable word “INFORMATION” is?
2. Illustrate the difference between SELL & SALE with examples?
3. Illustrate the modals of permission (any two) with examples?
4. What are closed ended questions? Give one example?
5. Name any two prepositions of time with usage?
6. Illustrate the stress shift in NOUN – VERB (two syllabic) with two examples?
7. What are the types of articles and name them?
8. What are the types of stress shifts?
9. Name two modals of ability with examples?
10. What is subject verb agreement, give one example?
11. What are the types of stress shift?
12. What are pronouns and its types?

ii. **Fill in the blanks with appropriate preposition.**  
(1 mark each)

1. Abraham Lincoln was born ............... 1885. (on / in)
2. She held the umbrella ................. her head. (over / on)
3. Jessica brought the money .............. the lender. (from / by)
4. She will sit ................. Jack and Jones. (among / between).
5. He has been smoking ................. year 2000. (for / since)
6. The crazy boy climbed ................. the mountain. (out / up)
7. A child fell ................. the roof while playing. (at / off)
8. Amir khan moved ................. another residence, last Sunday. (on / into).
9. My college is ................. the hotel on the highway. (after / behind)
10. The reception was organised ............... the park. (at / in)

iii. **State True or false**  
(1/2 mark each)

1. A vowel cannot stand alone and be called a syllable.
2. Article ‘a’ is used when a noun begins with a consonant sound.
3. “SHOULD” indicates very strong possibility of an action taking place.
4. “SPECIFIC” is a 4 syllable word.
5. “CAN” is a modal of ability.
6. “The” is not an article.

iv. **Break into syllables and write the number of syllable:**  
(2 marks each)

<table>
<thead>
<tr>
<th>Ex. BIOLOGY</th>
<th>BIO / LO / GY, Number of syllable = 3</th>
</tr>
</thead>
</table>
1. FAMILY
2. MECHANIC
3. TABLE
4. UNIVERSITY
5. COMMITMENT

v. Fill in the blanks with appropriate ARTICLE (A, AN, THE) (1 mark each)

1. It is .......... easy question.
2. Peterson is .......... most attacking player.
4. I love playing .......... guitar.
5. The doctor, who lives here, is ............... amazing person.

vi. Pick the correct form of the verb. (1 mark each)

1. Each player .......... a membership fee. (pays, pay)
2. The blue book or the new maps ........... on the shelf. (is, are)
3. Somebody ........... to be elected chairperson. (have, has)
4. Finally, two members ........... . (volunteer, volunteers).
5. The hammer and the chisel ........... in the cupboard. (are, is)
6. Everyone ........... to join the committee. (want, wants)
7. Little .......... said before the vote. (are, is)
8. The committee ........... lunch at the club everyday. (eats, eat)
9. Someone ........... responsible to end the meeting. (are, is)
10. Pounds ........... commonly accepted as a mode of payment in Scotland. (are, is)

vii. Fill in the blanks with appropriate MODALS. (1 mark each)

1. We ............... respect our elders.
2. He ............... meet me yesterday.
3. You ............... worry so much! Everything will be fine.
4. ............... I borrow your car?
5. I ............... purchase a phone yesterday, if I had money.

viii. Answer the following questions in 120 words. (ANY ONE) (2 marks each)

1. What goals have you set for yourself three years from now?
2. Do you like movies? What was the last movie you saw? Write about it
End Semester Examination, May 2014
BCA - Third Semester
MATHEMATICS-II (BCA-301)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blank:
a) A sequence is a ______ whose domain is the set of natural numbers.
b) A matrix having only one column is called ________.
c) A matrix of order \( m \times n \) is said to be a square matrix if ________.
d) Two sets A and B are said to be equivalent if there exists a ______ and ______ function from set A to set B.
e) The number of combinations of \( (n) \) different things taken \( (r) \) at a time is denoted by ________.
f) Prove that: \( 15 \times 14 \times 13 \times 12 = \frac{15!}{11!} \)
g) Write the binomial theorem.
h) What is the rule to find the \( P \)th term from the end.
i) Write the formula to find the middle term if \( (N) \) is even.
j) Write the general term in a binomial expansion.

UNIT-I

Q.2 a) Find the rank of the given matrix:
\[
A = \begin{bmatrix} 3 & -1 & 2 \\ -6 & 2 & 4 \\ -3 & 1 & 2 \end{bmatrix}
\]
5

b) Verify Cayley-Hamilton theorem for the given matrix:
\[
A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}
\]
10

Q.3 a) Find the middle terms in the expansion of \( (2x^2 - \frac{1}{x})^7 \).

b) In how many ways can the letters of the word 'DAUGHTER' be arranged so that the consonants and the vowels retain their relative positions?

UNIT-II

Q.4 a) Find the least upper bound and the greatest lower bound if exist, of the following:
\[
\{ x : x = 1 + \frac{1}{n} ; n \in \mathbb{N} \}
\]
7

b) Prove that \( \mathbb{N} \times \mathbb{N} \) is a countable set. Also discuss the concept of countability.
8

P. T. O.
Q.5  
   a) Define neighbourhood of a point. Explain why the set \( (r) \) is a neighbourhood of each of its points?  
   b) Give reasons for the following:  
      i) \( N^0 = \emptyset \)  
      ii) \( R^2 = R \)  

UNIT-III

Q.6  
   a) Define a convergent sequence. Prove that every convergent sequence is bounded but not conversely.  
   b) By definition: show that the sequence \( \left( \frac{1}{2^n} \right) \) converges to \( (0) \).  

Q.7  
   a) State and prove the 'FOURTH FORM' of comparison test of two series.  
   b) Show that the series:  
      \[ \sum_{n=1}^{\infty} \left( \frac{1}{n^2} \right)^{\frac{1}{2}} \]  
      is divergent.  

UNIT-IV

Q.8  
   a) Expand \( \sin(e^x - 1) \) up to and including the term of \( x^4 \).  
   b) What is Maclaurin's series? What are the working rules of the Taylor's theorem?  

Q.9  
   a) If \( f(x) = x^3 + 8x^2 + 15x - 24 \), find the value of \( \int_{11}^{10} x^{10} \) by the application of Taylor's series up to four places of decimals.  
   b) Evaluate: \( \lim_{x \to 0} \frac{e^x - e^{-x} - 2x}{x^3 \times \sin x} \).
End Semester Examination, MAY 2014  
BCA – Third Semester  
OBJECT ORIENTED DESIGN AND PROGRAMMING (BCA-302)  

Time: 3 hrs Max Marks: 75  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory; All questions carry equal marks  

Q.1  

(a) Which of the following operator is overloaded for object cout?  
   i) >>  ii) <<  
   iii) +  iv) =  

(b) Which of the following is not a loop structure?  
   i) For  ii) Do while  
   iii) While  iv) Repeat until  

(c) Which of the following statements is correct?  
   i) Class is an instance of object.  
   ii) Object is an instance of a class.  
   iii) Class is an instance of data type.  
   iv) Object is an instance of data type.  

d) The difference between constructors and destructor is:  
   i) Constructors can take arguments but destructor cannot  
   ii) Constructors can be overloaded but destructors cannot be overloaded  
   iii) Both i) and ii)  
   iv) None of these.  

e) Operator overloading:  
   i) makes C++ operators works with objects  
   ii) gives new meaning to existing C++ operators  
   iii) makes new C++ operator  
   iv) Both i) and ii) above.  

f) The operator << is called:  
   i) An insertion operator  ii) Put to operator  
   iii) Either i) and ii)  iv) None of these  

g) Identify the user defined data types from the following:  
   i) Enumeration  ii) Classes  
   iii) Both i) and ii)  iv) Int  

h) Which of the following is user defined data type?  
   i) Public  ii) Private  
   iii) Class  iv) both i) and ii)  

i) Which of the following statement is correct with respect to the use of friend keyword inside a class?  
   i) a private data member can be declared as a friend  
   ii) a class may be declared as a friend  
   iii) An object may be declared as a friend  
   iv) We can use friend keyword as a class name  

j) i) The content of two pointers that point to adjacent of type float differ by:  
   i) One byte  ii) Two bytes  
   iii) Three bytes  iv) Four bytes  

UNIT-I  

Q.2 What are the rules for operator overloading? How many arguments are required in the definition of an overloaded unary and binary operators?
Q.3 What are the different forms of inheritance? How ambiguity is resolved in multilevel and multiple inheritance?

UNIT-II

Q.4 a) What are constructors? Explain their special characteristics.  
    b) Why do we need virtual functions? Explain.

Q.5 Write short notes on:  
    a) Exception handling.  
    b) Order of execution of constructor in inheritance.

UNIT-III

Q.6 a) In what order are class constructors called when the derived class object is created. Explain with the help of an example.  
    b) Write a class and demonstrate the concept of polymorphism in it.

Q.7 a) Compare the procedural programming approach with object oriented programming approach. Illustrate polymorphism with an example.  
    b) Explain the term ‘data hiding’ in context to OOPS? Correlate it with encapsulation and abstraction.

UNIT-IV

Q.8 a) How are data and functions organized in an object oriented programming?  
    b) What factors distinguish object oriented programming from procedural programming? What are the shortcomings of a procedure oriented approach?

Q.9 Explain the data types in C++. Why is an array called the derived data types? Explain enumeration data type in detail.
End Semester Examination, May 2014
BCA - Third Semester
OBJECT ORIENTED DESIGN AND PROGRAMMING (BCA-302)

Time: 3 hrs Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 Multiple choice questions:
   a) Elements in an array are identified by a unique ________.
      i) Data type.         ii) Order.
      iii) Subscript.       iv) Symbol.
   b) The body of a C++ function is surrounded by:
      i) Parentheses.       ii) Angle brackets.
      iii) Curly brackets.  iv) Square brackets.
   c) Identify the user defined types from the following:
      i) Enumeration.       ii) Classes.
      iii) i) and ii).      iv) int.
   d) Which of the following is a string literal constant?
      i) "Visual C++".
      ii) "137.45".
      iii) "A".
      iv) "2,365".
      v) All of the above.
   e) A ________ is a special method used to initialize the instance variable of a class:
      i) Member function.
      ii) Destructor.
      iii) Constructor.
      iv) Structure.
   f) Which function allows you to set minimum width for the next input?
      i) Setfill.
      ii) Setw.
      iii) Setwidth.
      iv) None.
   g) Which of the following statements are correct for a static member functions?
      i) It can access only other static members of its class.
      II) It can be called using the class name instead of objects.
      i) Only I) is correct.
      ii) Only II) is correct.
      iii) Both I) and II) are correct.
      iv) Both I) and II) are incorrect.
   h) A base class may also be called a:
      a) Child class.
      b) Derived class.
      ii) Subclass.
      iii) Parent class.
   i) The do-while loop is ideal for loop structures that:
      i) Repeat some process a fixed number of times.
      ii) Must execute some process at least one time.
      iii) Must check the loop conditions before the loop body is executed.
      iv) Do all of the above.
   j) Which of the following operations could not be overloaded?
      i) Sizeof       ii) +      iii) ==      iv) None

UNIT-I

Q.2 Explain the key concept of OOP.  15

Q.3 a) What is procedure oriented programming? What are its main characteristics?  8
    b) Explain the difference between object oriented programming and procedure
       oriented programming.  7

P. T. O.
UNIT-II
Q.4 Describe data types in C++ with details. 15
Q.5 Explain about formatted and unformatted console input output operations. 15

UNIT-III
Q.6 Define operator overloading. Also explain how to overload unary and binary operator with the help of an example. 15
Q.7 Discuss the role of constructors and destructors in a class. State the rules associated with them. 15

UNIT-IV
Q.8 What is visibility mode? What are the different visibility modes supported by C++? 15
Q.9 Explain in detail about Exception handling in C++. 15
End Semester Examination, May 2014
BCA – Third Semester
DATABASE SYSTEM (BCA-303)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Data dictionary is used for
   i) Accessing database 
   ii) Content of file
   iii) Access details 
   iv) None of the above
b) In the relational model, each tuple contains the value for
   i) Attributes 
   ii) entity
   iii) relationship 
   iv) domains
c) As compared to relational and network model, searching for the data value is very easy in hierarchical model.
   i) True 
   ii) false
d) Relational algebra is a
   i) Procedural language 
   ii) Non-procedural language
   iii) Commercial language 
   iv) All of the above
e) DCL is a language that allows:
   i) Granting of privileges 
   ii) Retrieval of data
   iii) Alter schema objects 
   iv) Rename schema
f) A relation is said to be in 2 NF if
   i) If it is 1 NF 
   ii) Non key attributes dependent on primary key.
   iii) Both i) and ii)
   iv) Table is decomposed
g) REVOKE command allows:
   i) Withdrawal of privileges 
   ii) Read operation
   iii) Granting privileges 
   iv) None
h) Network failure can be due to
   i) Communication software failure 
   ii) Hardware failure 
   iii) Topology failure 
   iv) All of the above
i) Confidentiality includes:
   i) Privacy of communication 
   ii) Authorization
   iii) Authentication 
   iv) All of the above
j) A relation can be logically connected to another relation by defining a
   i) Foreign key 
   ii) Common fields
   iii) Primary key 
   iv) Hyperlink

UNIT-I

Q.2 a) What are the major components of database system? Explain.
   b) What are the different types of database end users? Discuss the main activity of each.

Q.3 Compare and contrast the three popular data models with respect to their structure and implementation.
UNIT-II

Q.4  a) Explain entity integrity and referential integrity rule.  
b) Differentiate between DBMS and RDBMS. Also give suitable examples wherever applicable.  

Q.5  Write down the steps to create table using wizards in MS Access.  

UNIT-III

Q.6  State, by giving examples, the conditions that are necessary for a relation to be in 1 NF, 2 NF, 3 NF and BCNF.  

Q.7  a) Compare and contrast full/partial/transitive dependencies.  
b) Why certain dependencies are called "trivial functional dependencies"? Explain.  

UNIT-IV

Q.8  What do you understand by concurrency in databases? Discuss the various concurrency control methods in databases with suitable example.  

Q.9  a) Discuss the data fragmentation along with its types.  
b) Differentiate between security and recovery of data.  
c) Which types of failures can exist in a system? Discuss.
End Semester Examination, May 2014  
BCA -Third Semester  
BUSINESS ORGANIZATION AND PRINCIPLES OF MANAGEMENT  
(BCA-304)

Time: 3 hrs  
Max Marks: 75

No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:  
a) Economic activities are further classified into ______, _______ and ________ categories.
b) Business can earn profits only when it provides _______ or _________.
c) Communication is _________ in the formal groups.
d) There are _________ levels of management.
e) Forecasting is the ______ of manpower requirement.  
State whether true or false:  
f) WPM stands for the workers participation in management.
g) Communication is a part of the directing function of management.
h) Responsibility is the duty to which a person is bound of his status or task.
i) What is the basic motive of business?
j) Define authority.

UNIT-I

Q.2  
a) Is there any difference between profession and business? Explain with suitable examples.  

b) Discuss various objectives of business.  

Q.3 Write notes on the following:  
a) Business system and its environment.  
b) Social responsibility of business towards different groups.  

UNIT-II

Q.4  
a) What is meant by organization? Describe the main functional areas of an organization.  

b) How does informal organization differ from formal organization?  

Q.5 Write short notes on the following:  
a) Process of decentralization  
b) Project organization.  

UNIT-III

Q.6  
a) How will you classify the levels of management in an organization? Describe the functions performed by different levels of management.  

b) Discuss the significance of management.  

Q.7 Assess the various principles of management given by ‘Taylor’ to the management thoughts.  

UNIT-IV

Q.8 Differentiate between the following:  
a) Performance appraisal and potential appraisal.  
b) Recruitment and selection.  

Q.9 Explain the concept of workers participation in management. What is the role of an employee in a ‘workers participation in management’ process
End Semester Examination, May 2014

BCA – III Semester

Business Communications and Conversational Skills – I (BCA-306)

me - 1.5 Hrs

Max Marks: 50

i. Answer the following questions. (ANY FIVE) (2 marks each)
   1. What is a slang language? Give one example.
   2. Demonstrate the sentence structure of simple present tense (negative sentence)?
   3. Name the three degrees of comparison of adjectives?
   4. What does FANBOYS stand for in conjunctions?
   5. What are the three kinds of vowel sounds?
   6. What are the key elements of paraphrasing?

ii. Fill up the blanks with the most appropriate conjunction. (1 mark each)
   1. It was a warm ............... humid day.
   2. I went to shop for shoes ............... couldn’t find that I liked.
   3. I wanted to study ............... I took loan.
   4. You can take a bus ............... a taxi to work.
   5. It was very hot ............... he ordered a cold drink.

iii. Write the past and past participle form of the following verbs. (1 mark each)
   1. Speak ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... ............... 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1. Red
2. Lazy
3. Slow
4. Attractive
5. Good
6. Big

vii. **Correct the given sentence by removing Indianism.**
1. Do you want to eat some ice-cream-vice cream.
2. What is your good name?
3. He only told me the story.
4. He does this always.
5. I am understanding this.

(1 mark each)

viii. **Match the colloquialism with its meaning :-**
A. The apple of my eye.  
1. Paying close attention.
B. Lion-hearted.  
2. An experienced sailor.
C. Carried away.  
3. In trouble.
D. An old salt.  
4. Someone specially dear.
E. All ears.  
5. Overly excited.
F. Under a cloud.  

(1 mark each)

ix. **Paraphrase the given case scenario & also write the key points for each.** *(3 marks)*
1. Customer: Hi, I am Ben. I had sent a payment of $500. I received my credit card statement.
   I am surprised it’s not showing in the statement. I had sent the payment in the last week of July.

x. **Answer ANY ONE of the following questions in 100 words.** *(2 marks each)*
1. What goals have you set for yourself three years from now?
2. What do you enjoy doing in your free time?
End Semester Examination, May 2014
BCA - Fourth Semester
E-COMMERCE (BCA-401)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Which of the following is part of four main types of e-commerce?
b) The solution for all business need is:
   i) EDI    ii) ERP    iii) SCM    iv) None of the above
c) Which is not the function of e-commerce?
   i) Marketing   ii) Advertising   iii) Warehousing   iv) None of the above
d) Most individuals are familiar with which form of e-commerce?
e) Which of the following is not related to security mechanism?
   i) Encryption    ii) Decryption    iii) e-cash    iv) All of the above
f) What automates business processes?
   i) Workflow    ii) ASP    iii) EIP
g) Which will not harm computer resources?
   i) Firewall    ii) Virus    iii) Trojan horse    iv) None of the above
h) Which process is used to reinstall data from a copy when the original data has been lost?
   i) Backup    ii) Recovery    iii) Benchmarking    iv) Data cleansing
i) ERP stands for:
   i) Enterprise resolution planning.
   ii) Enterprise reverse planning.
   iii) Enterprise resource planning.
   iv) None of the above.
j) What is the process of making a copy of information stored on a computer?
   i) Backup    ii) Antivirus    iii) Firewall    iv) Biometric

UNIT-I

Q.2 a) What do you mean by e-cash payment system? 5
b) What is supply chain management? Write down advantages and disadvantages of using internet technologies supply chain. 10

Q.3 a) What is e-business? Differentiate it with e-commerce with the help of real life examples. 8
b) Describe the role of e-commerce in competitive strategies. 7

UNIT-II

Q.4 a) Explain electronic market place with an example. 8
b) Explain management issues in online shopping. 7

Q.5 Explain the following:
   a) Internet based EDI.
   b) Supplier oriented market place.
   c) Electronic marketing in B2B. 5x3

P.T.O.
UNIT-III

Q.6  a) What are various public policy issues for protecting intellectual property? 10
    b) Explain electronic check system. 5

Q.7  Elaborate some e-commerce related legal incidents. 15

UNIT-IV

Q.8  Differentiate between:
    a) Client and Server.
    b) HTTP and FTP.
    c) Bridges and repeaters. 5x3

Q.9  Explain the following:
    a) Digital economy.
    b) Digital signature. 7½x2
End Semester Examination, May 2014
BCA - Fourth Semester
OPERATING SYSTEM (BCA-402)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Choose the best alternative:
a) State of a process is stored in
   i) Process control block   ii) Inode
   iii) File allocation table iv) Memory Block
b) A process is said to be in ______ state if it was waiting for an event that will
   never occur.
   i) Safe ii) Unsafe
   iii) Starvation iv) deadlock
c) Round –Robin scheduling is essentially the preemptive version of ________.
   i) FIFO ii) Shortest job first
   iii) Longest time first iv) shortest job next
d) ________ allocates the largest hole (free memory segment) available in the
   memory.
   i) Best-fit ii) Worst-fit
   iii) First-fit iv) None of these
e) Virtual memory is commonly implemented by ________.
   i) Segmentation ii) Swapping
   iii) Demand-paging iv) Overlays

Fill in the blanks with correct words
f) The value of semaphore is initialized to ________.
g) Solution to external fragmentation is ________.
h) Banker’s algorithm deals with ________.
i) Long term scheduler is also called as ________.
j) A device controller is a ________ unit.

1½x10

UNIT-I

Q.2 a) Define an operating system. Give an abstract view of an operating system and
   explain its four layers. 10
   b) Discuss advantages and disadvantages of multiprogramming operating system. 5

Q.3 a) Briefly describe the four major resources managed in a typical operating system. 7½
   b) What is the difference between single user and multiuser operating system? 7½

UNIT-II

Q.4 Consider the following set of processes with the length of the CPU burst time given in
milliseconds:

<table>
<thead>
<tr>
<th>Process</th>
<th>Burst time</th>
</tr>
</thead>
<tbody>
<tr>
<td>P₁</td>
<td>7</td>
</tr>
<tr>
<td>P₂</td>
<td>4</td>
</tr>
<tr>
<td>P₃</td>
<td>2</td>
</tr>
<tr>
<td>P₄</td>
<td>4</td>
</tr>
</tbody>
</table>

P. T. O.
The processes are assumed to arrive in the order P₁, P₂, P₃, P₄ all at time 0. 

a) Draw the Gantt chart of these processes using FCFS, SJF, RR(time quantum=3) scheduling. 

b) What is the turn around time of each process of each scheduling algorithm in part a and also calculate average turn around time. 

c) What is the waiting time of each process of each scheduling algorithms in part a and also calculate the average waiting. 

Q.5 What is deadlock? Give four situations where deadlock occurs. Explain Banker’s algorithm for deadlock avoidance. 

UNIT-III

Q.6 a) When do page fault occurs? Describe the actions taken by the operating system when a page fault occurs with the help of diagram. 

b) What is page table? 

Q.7 Discuss the following: 

a) Paging 

b) External and internal fragmentation. 

UNIT-IV

Q.8 Explain file management functions in detail. 

Q.9 Consider a disk queue given below with requests of I/O to block on cylinders: 82, 175, 26, 153, 36, 130, 65, 72, 15 

Initially the head is at cylinder 45. Calculate the total head movements using FCFS, SSTF and SCAN scheduling.
End Semester Examination, May 2014  
BCA -Fourth Semester  
WEB DESIGNING AND INTERNET APPLICATION (BCA-403)  

Time: 3 hrs  
Max Marks: 75  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) Who is known as father of WWW?  
i) Charles Darwin  
ii) Tim Thompson  
iii) Tim-Berners-Lee  
iv) Robert Caillau  
b) Which organization defines web standards?  
i) Apple Inc  
ii) World Wide Web consortium (W3C)  
iii) Microsoft Corporation  
iv) IBM Corporation  
c) How will you define homepage?  
i) It is an index of encyclopedia articles.  
ii) It is first page of website.  
iii) It is a place where all the data of internet is stored.  
iv) It is required for access of Internet.  
d) Which of the following is an attribute of <Table> tag?  
i) SRC  
ii) Cell padding  
iii) Link  
iv) BOLD  
e) Which of the following is not a paired tag?  
i) <p>  
ii) <u>  
iii) <i>  
iv) <BR>  
f) Which of the following are attributes of <font> tag?  
i) Face  
ii) Size  
iii) Color  
iv) All of the above  
g) Which attribute you will use with TD tag to merge two cells horizontally?  
i) merge = colspan2  
ii) rowspan = 2  
iii) Colspan = 2  
iv) merge = row2  
h) _______ tag is an extension to HTML that can enclose any number of JavaScript statements.  
i) <SCRIPT>  
ii) <BODY>  
iii) <HEAD>  
iv) TITLE  
i) Which is the correct JavaScript syntax to write "Hello World"?  
i) System.out.println ("Hello World")  
ii) Println ("Hello World")  
iii) Document.write ("Hello World")  
iv) Response.write ("Hello World")  
j) JavaScript is interpreted by:  
i) Client  
ii) Server  
iii) Object  
iv) None of the above  

UNIT-I  

Q.2  
a) Discuss the internet with its applications in different areas.  
b) Write a short note on E-mail.  

Q.3  
Write short notes on:  
a) Domain name system  
b) SMTP  
c) Telnet  

1½x10  

P. T. O.
UNIT-II
Q.4 Differentiate internal, external and inline style sheets. 15
Q.5 a) Create a table in HTML using various attributes like Colspan, rowspan, Cellpadding, Cellspacing, Border, color and applying various fonts. 10
   b) How can you create links in HTML? 5

UNIT-III
Q.6 Create a registration form in HTML. Also calculate the total points using buttons. 15
Q.7 a) Differentiate <Frameset> and <Frame>. Join 3 HTML pages using frames. 7
   b) Discuss:
      i) <Address>
      ii) <Center>
      iii) COMMENT
      iv) BLOCKQUOTE 2x4

UNIT-IV
Q.8 a) Write a program in JavaScript to swap the images.
   b) Differentiate window and document object in JavaScript. 15
Q.9 Explain at least two objects with their methods and its properties in detail. 15
End Semester Examination, May 2014  
BCA -Fourth Semester  
BUSINESS COMMUNICATION-II (BCA-404)

Time: 3 hrs  
Max Marks: 75  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  
Choose the correct option:

a) According to which of the following interview type, several applicants are being interviewed by one or more company representatives.
   i) One-to-one interview.  
   ii) Panel interview.  
   iii) Group interview.  
   iv) Stress interview.

b) Evaluation of training program is conducted:
   i) At the initial stage while designing a training.  
   ii) Prior to need assessment phase.  
   iii) Parallel to design a training content.  
   iv) At the last stage of training.

c) Which of the following are the groups of social nature that are formed around friendship and common interests?
   i) Formal.  
   ii) Structured.  
   iii) Informal.  
   iv) Unstructured.

d) 'Career counseling' is a part of which of the following functions of HRM:
   i) Compensations and benefits.  
   ii) Planning and selection.  
   iii) Training and development.  
   iv) Maintenance of HRIS.

e) The hiring process comprises which of the following steps:
   i) Selection, requirement and performance appraisals.  
   ii) Recruitment, selection and socialization.  
   iii) Selection, orientation and development.

f) All of the following areas are covered in an employee orientation program except:
   i) Organizational history.  
   ii) Employee benefits.  
   iii) Organizational issues.  
   iv) Organizational politics.

g) The process of discovering potential candidates for actual or anticipated organizational vacancies is known as:
   i) HR planning.  
   ii) Job analysis.  
   iii) Recruitment.  
   iv) Selection.

h) The intellectual and mechanical process used by an organization to transform I/Ps into O/Ps is termed as:
   i) Task.  
   ii) People.  
   iii) Structure.  
   iv) Technology.

i) ______ is the main source of innovation.
   i) Upgraded technology.  
   ii) Human mind.  
   iii) Competitors pressure.  
   iv) Research and development.

j) The process of choosing symbols to carry the message you send is called:
   i) Interpreting.  
   ii) Channeling.  
   iii) Decoding.  
   iv) Encoding.

UNIT-I

Q.2  

a) Explain the characteristics of a leader and the various qualities of a leader.  

b) Explain various steps of the group decision making process.  

P. T. O.
Q.3  a) What do you mean by soft skills? How can we develop our communication skills?  
     b) How can we perform effectively in a group?  

8  7

UNIT-II

Q.4  a) Name different techniques on how to start developing your own positive attitude.  
     b) Explain how positive attitude helps us in life.  

8  7

Q.5  Answer the following questions:  
     a) Melt: Liquid:: freeze: _________.  
     b) Paw: cat:: Hoof: _________.  
     c) Muslim: Mosque:: Sikhs : _________.  
     d) If \( \frac{1}{2} \) of a tank holds 80 litres of \( H_2O \). Then the quantity of \( H_2O \) that half of the tank holds is _________.  
     e) Opposite of extravagant is _________.  
     f) The no. of integers between 17 and 400 divisible by 9 is _________.  
     g) A woman says, "If you reverse my own ages the figures represent my husband's age. He is of course, senior to me and the difference between our ages is one-eleventh of their sum". The woman's age is _________.  
     h) A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C to D?  
     i) In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 m and a distance of 1 m is left from all sides of the boundary of the garden, the length of the garden is _________.  
     j) There are deer and peacocks in a zoo. By counting heads they are 80. The no. of their legs is 200. How many peacocks are there?  

1½x10

UNIT-III

Q.6  a) What is the best way of selecting relevant format for your presentation? Does it depend on your audience or not?  
     b) How important is logical sequencing of your messages in your presentation?  

8  7

Q.7  a) Generating appeals and gathering evidence is important to support your ideas in your presentation. Illustrate.  
     b) Write short notes on any two:  
        i) Brain storming.  
        ii) Presentation goals.  
        iii) Professional presentation.  

4x2

UNIT-IV

Q.8  a) Mention the role of interview in hiring an individual. What are the various types of interviews?  
     b) List various documents that need to be carried while going for an interview.  

8  7

Q.9  a) Write an application to IBM Director for the post of Technical Solution Provider detailing about your achievements.  
     b) Design your resume for the above mentioned post covering all aspect of personal, educational, professional details etc.  

8  7
End Semester Examination, May 2014

BCA IV semester

Business Communications and Conversational Skills-II (BCA-406)

x Time -3 Hrs

Max Marks: 75

1. Answer the following questions (ANY TEN). (2.5 marks each)
   1. What is the structure of a call opening, give an example?
   2. What are the characteristics of good customer service?
   3. Illustrate the sentence structure of real conditional with an example?
   4. What are the steps in proposing a solution?
   5. What are the types of Adverbs?
   6. What are the types of questions, give one example of each?
   7. Why do customers call us, any four reasons?
   8. What are the types of conditional sentences?
   9. Illustrate the structure of a present perfect tense with an example?
  10. What is comprehension? What are the steps to comprehend?
  11. Illustrate an exception to rules of reporting direct into indirect?
  12. What is a phrasal verb? Give one example.

ii. Use the given prepositional phrases in a sentence. (1 mark each)
    Example: ANGRY AT – I was angry at a student.
    1. Caused by
    2. Responsible for
    3. Fond of
    4. Based on
    5. Affiliated with

iii. Convert the following tenses into present perfect tense. (1 mark each)
    Ex. She speaks confidently = She has spoken confidently.
    1. I do the laundry.
    2. We visit Paris.
    3. Jimmy had rented a car.
    4. I bought a new phone.
    5. She put on formal dress.

iv. Write the meaning of given business phraseology & use it in a sentence. (1 mark each)
    1. At last
    2. Budget squeeze
    3. All of a sudden
    4. Double-check

v. Illustrate the meaning of the given phrasal verb with its' usage: (1 mark each)
Ex. GIVE UP: stop trying – She never gives up.
1. Look after
2. Break up
3. Take off
4. Work out
5. Carry on
6. Jot down
7. Pass away
8. Drop out
9. Bring up
10. Call off

vi. Convert Active Voice to Passive Voice. (1 mark each)
1. Samantha wrote a letter.
2. Many people have left the job.
3. The girls are singing a new song.
4. I have paid the bill.
5. Gucci designed this shoe.

vii. Match the following (states with capitals). (1 mark each)
1. Texas  Trenton
2. California  Honolulu
3. New Jersey  Austin
4. Massachusetts  Sacramento
5. Indiana  Boston
6. Hawaii  Indianapolis

viii. Change into indirect speech. (2 marks each)
1. He said, “I go to school every day.”
2. Ram said to Arjun, “Go away.”
3. The detective said to me, “What are you doing.”
4. The teacher said, “Water boils at 100 degree celsius.”

ix. Write the call scripts on the scenarios given below. (2 marks each)
1. Customer says I have lost my wallet and it had the XYZ card in it. Can the card be stopped? I am really worried. I have been thinking about it and I hope that no one has used it. The customer gives you the account number and you need to help the customer with the query.
End Semester Examination, May 2014
BCA - Fifth Semester
INFORMATION AND COMMUNICATION TECHNOLOGY (BCA-501)

Time: 3 hrs
Max Marks: 75
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blank:
   a) Full form of POS is ______.
   b) Tuck shops are used for ________.
   c) Digital signatures are used for an ________.
   d) Phishing is used to ________.
   e) RSI is used in ________ application of ICT.

State true or false:
   f) An operating system is an interface between user and an application program with the hardware.
   g) XML stands for enterprise markup language.
   h) Is it ethical to hack the password of a user and check his account?
   i) Cyber crimes are the crimes committed on the web by intentionally hacking somebody's information.
   j) RSI stands for reverse service index. 1½x10

UNIT-I

Q.2 What are digital signatures? When and why do we use digital signatures in transferring important documents? 15

Q.3 Write short notes on:
   a) EDI  
   b) Address book  
   c) E-filing  5x3

UNIT-II

Q.4 What do you understand by a blog? Write the steps to create a blog and make it public to capture the opinion of public about your blog. 15

Q.5 What do you understand by a search engine? Why do we need a search engine? State the relative advantages and disadvantages of search engines. 15

UNIT-III

Q.6 What do you understand by cyber audit? How is it different from network audit? Write down the step to perform cyber audit using remote login. 15

Q.7 What do you mean by cyber crimes? Mention various reasons for committing cyber crimes. Who are cyber criminals? Give examples. 15

UNIT-IV

Q.8 Write short notes on:
   a) Simulation using ICT  
   b) POS  
   c) Turtle graphics  5x3

Q.9 Relate applications of ICT to the following real world systems:
   a) Retail industry  
   b) Banking  
   c) Booking system  5x3
End Semester Examination, May 2014
BCA -Fifth Semester
SOFTWARE ENGINEERING (BCA-502)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Choose the correct option:
   a) Software mistakes during coding are known as:
      i) Failures.  
      ii) Defects.
      iii) Bugs.
      iv) Errors.
   b) Which is NOT a software characteristic?
      i) Software does not wear out.
      ii) Software is flexible.
      iii) Software is not manufactured.
      iv) Software is always correct.
   c) Software is:
      i) Superset of programs.
      ii) Subset of programs.
      iii) Set of programs.
      iv) None of the above.
   d) Project risk factor is considered in:
      i) Waterfall model.
      ii) Prototyping model.
      iii) Spiral model.
      iv) Iterative enhancement model.
   e) Build and fix model has:
      i) 3 Phases.
      ii) 1 Phase.
      iii) 2 Phases.
      iv) 4 Phases.
   f) Which is not a characteristic of a good SRS?
      i) Correct.
      ii) Complete.
      iii) Consistent.
      iv) Brief.
   g) DFD stands for:
      i) Data flow design.
      ii) Descriptive functional design.
      iii) Data flow diagram.
      iv) None of the above.
   h) The worst type of cohesion is:
      i) Temporal cohesion.
      ii) Coincidental cohesion.
      iii) Logical cohesion.
      iv) Sequential cohesion.
   i) The relationship of data elements in a module is called:
      i) Coupling.
      ii) Cohesion.
      iii) Modularity.
      iv) None of the above.
   j) During validation:
      i) Process is checked.
      ii) Product is checked.
      iii) Developer's performance is evaluated.
      iv) The customer checks the product.

UNIT-I

Q.2  a) Define a software process. How do software myths affect a software process?  
     b) Discuss the principle and applications of software engineering.

Q.3  What are the advantages of using prototype software development model instead of waterfall model? Also explain the effect of defining a prototype on the overall cost of the software project.

P. T. O.
UNIT-II

Q.4  a) Consider a project with the following parameters:
    Number of user inputs=50,
    Number of user outputs=40,
    Number of user enquiries =35,
    Number of user files=06,
    Number of external interfaces=04.
    Assume all complexity adjustment factors and weighting factors are average.
    Compute the functional point for the project.  10
    b) Explain the importance and types of requirements in requirement engineering.  5

Q.5  a) Discuss the benefits and limitations of using Gantt charts with suitable example. 10
    b) Discuss the various categories of software metrics.  5

UNIT-III

Q.6  Compare and contrast the object oriented design and function oriented design. Also
     mention their advantages and disadvantages.  15

Q.7  a) What is user interface design? Discuss its relevance.  8
    b) What is modularity? List the important properties of a modular system.  7

UNIT-IV

Q.8  Define the terms:
    a) Fault
    b) Failure
    c) Bug
    d) Mistake
    e) Error  3x5

Q.9  Discuss the various techniques of white box testing in detail.  15
End Semester Examination, May 2014
BCA -Fifth Semester
COMPUTER GRAPHICS (BCA-503)

Time: 3 hrs  Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) CAD means.
   i) Computer art design.    ii) Car aided design.
   iii) Computer aided design. iv) None of these.

b) Graphics output devices are:
   i) Graphic tablets.        ii) Mouses.
   iii) Joysticks.            iv) None of these.

c) A touch screen display is an:
   i) Input device.          ii) Output devices.
   iii) Both i) and ii)      iv) Neither input nor output devices.

d) The information in which an object is moved in a minimum distance path from one
   position to another is called:
   i) Transaction.           ii) Scaling.
   iii) Rotation.            iii) Reflection.

e) The process of mapping a world window in world co-ordinate system to viewport is
   called:
   i) Transformation viewing. ii) View port.
   iii) Clipping window.      iv) Screen co-ordinate system.

f) A line can be represented by:
   i) 1 point.                ii) 2 points.
   iii) 3 points.             iv) 4 points.

g) Centre of projection for a parallel projector is at:
   i) Zero.                  ii) Infinity.
   iii) One.                 iv) None of these.

h) Component of CRT includes.
   iii) Electric field.      iv) All of these.

i) Rectangle function is used to:
   i) Draw a rectangle.     ii) Draw a square.
   iii) Both of the above.  iv) None of the above.

j) getbgcolor() is used to:
   i) Set the background color of the screen.
   ii) Set the background color of the image.
   iii) To fill the color in an image.
   iv) None of the above.

UNIT-I

Q.2 a) What are different methods to generate colours in monitors? Explain.

b) What do you mean by standard? What does PHIGS stand for? How will you
differentiate PHIGD from GKS?

Q.3 a) What is the basic method of working of an LCD?

b) Explain any two input devices in details. Differentiate between impact and
non-impact printers.

P. T. O.
UNIT-II

Q.4 Define Cohen-Sutherland algorithm for line drawing along with an example. 15

Q.5 What would be the new co-ordinates of rectangle A \((0, 0)\), B \((10, 0)\), C \((0, 10)\) and D \((10, 10)\) if it is scaled by 2 units in x direction and by 3 units in y direction? 15

UNIT-III

Q.6 a) Differentiate between cavalier and cabinet projections. Why cabinet projection is more realistic than cavalier projection? 8
   b) Give the general form of matrix of translation, scaling and mirror reflection in 3D. 7

Q.7 a) Explain the following terms: view plan, vanishing point, principle vanishing point, for shortening factor, depth cueing. 10
   b) Define the method to transform an object from wcs to vcs. 5

UNIT-IV

Q.8 Give the syntax and use of following graphics function along with an example:
   Circle, bar, flood fill, line, put pixel, outtextxy, setbkcolor, text height. 15

Q.9 WAP in C language to draw a teddy bear as shown in the figure below:
End Semester Examination, May 2014
BCA - Fifth Semester
NUMERICAL ANALYSIS AND STATISTICS (BCA-504)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1
a) Write the general formula for error in a function \( u = f(u_1, u_2, \ldots, u_n) \).
b) Define convergence of an iteration method.
c) State Euler's method for solving \( \frac{dy}{dx} = f(x, y) \).
d) What is the order of convergence of Regula-Falsi method?
e) Show that \( \Delta V = V \Delta = \Delta - V \).
f) Convert \( \Delta f_5, \Delta^2 f_5 \) and \( \Delta^3 f_5 \) in central differences.
g) What is Newton's divided difference interpolation formula?
h) Write down an expression for composite Simpson's one-third rule for numerical integration.
i) What is the interval containing 99% of area under normal curve?
j) Calculate \( P(z > 3) \) for standard normal variate \( z \).

\[ 1 \frac{1}{2} \times 10 \]

UNIT-I

Q.2
a) Find a root lying between 2 and 3 of the equation \( x^3 - 3x - 5 = 0 \) using Bisection method.
b) Find square root of 10 using Newton-Raphson Method.

\[ \text{UNIT-II} \]

Q.3
a) Solve by Euler's method, the initial value problem:
\[ \frac{dy}{dx} = \frac{x - y}{2}, y(0) = 1 \text{ over } [0, 2] \text{ using step size } 0.5. \]
b) If \( u = \frac{5xy^2}{z^3} \) and errors in \( x, y \) and \( z \) are 0.001, compute the relative error \( (E_r)_{\text{max}} \) in \( u \) when \( x = y = z = 1 \).

\[ 8 \]

Q.4
a) Calculate approximate value of \( \sin x \) for \( x = 0.54 \) using the following table:

<table>
<thead>
<tr>
<th>( x )</th>
<th>0.5</th>
<th>0.7</th>
<th>0.9</th>
<th>1.1</th>
<th>1.3</th>
<th>1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \sin x )</td>
<td>0.47943</td>
<td>0.64422</td>
<td>0.78333</td>
<td>0.89121</td>
<td>0.96356</td>
<td>0.99749</td>
</tr>
</tbody>
</table>

\[ 8 \]

b) Using Newton's divided difference formula, find a polynomial satisfied by \((-4,1245), (-1,33), (0,5), (2,9) \) and \((5,1335)\).

\[ 7 \]

Q.5
a) The formula \( f(x) \) is given in the points \((7,3), (8,1), (9,1) \) and \((10,9)\). Find \( f(9.5) \) using Lagrange's interpolation formula.
b) Establish Newton's backward difference interpolation formula.

\[ 8 \]

\[ 7 \]

P. T. O.
Q. 6  a) Find a parabola of best fit for the following data:

<table>
<thead>
<tr>
<th>x</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>-2.1</td>
<td>-0.4</td>
<td>2.1</td>
<td>3.6</td>
<td>9.9</td>
</tr>
</tbody>
</table>

b) Using centered formula of order $n^2$, find $f'(1.2)$ for the data:

<table>
<thead>
<tr>
<th>x</th>
<th>1.0</th>
<th>1.1</th>
<th>1.2</th>
<th>1.3</th>
<th>1.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>$f(x)$</td>
<td>8.2277</td>
<td>7.2428</td>
<td>5.9908</td>
<td>4.5260</td>
<td>2.9122</td>
</tr>
</tbody>
</table>

Q. 7  a) The velocity $v \text{ km/min}$ of a moped started from rest is given at fixed intervals of time (min) as follows:

<table>
<thead>
<tr>
<th>t</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>v</td>
<td>10</td>
<td>18</td>
<td>25</td>
<td>29</td>
<td>32</td>
<td>20</td>
<td>11</td>
<td>5</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Using Simpson's rule, find the distance covered in 20 minutes.

b) Derive general formula for integration using Newton's forward difference formula.

UNIT-IV

Q. 8  a) Find the standard deviation for the following discrete distribution:

<table>
<thead>
<tr>
<th>x</th>
<th>8</th>
<th>12</th>
<th>16</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>$p(x)$</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

b) The following data shows the number of seeds germinating out of 10 on damp filter for 80 sets of seeds. Fit a binomial distribution to this data:

<table>
<thead>
<tr>
<th>x</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>f</td>
<td>6</td>
<td>20</td>
<td>28</td>
<td>12</td>
<td>8</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Q. 9  a) The mean right of 500 students is 151 cm and the standard deviation is 15 cm. If heights are normally distributed, find the number of students whose heights lie between 120 cm and 155 cm.

b) Test for goodness of fit at the level significance 0.05 if the data and the theoretical frequencies are respectively:

\[
\begin{array}{c|c|c|c|c}
 x & 0 & 1 & 2 & 3 \\
 y & 38 & 144 & 342 & 287 \\
\end{array}
\quad
\begin{array}{c|c|c|c|c}
 x & 0 & 1 & 2 & 3 & 4 & 5 \\
 y & 33.2 & 161.9 & 316.1 & 308.6 & 150.7 & 29.42 \\
\end{array}
\]
Q.1  a) What is the name of the tool that is used for running applets?
   b) What is the output when the following program is compiled and run?
      Class Test
      
      ```java
      public static void main(string args[])
      {
         int i, j, k, l = 0;
         k = I++;
         j = ++k;
         i = j++;
         System.out.println(i);
      }
      }
      ```
      
      c) What will this code print?
      int arr[] = new int[5];
      System.out.println(arr);
      
      d) What is the output of this program?
      Class Conversion
      
      ```java
      public static void main(string args[])
      {
         double a = 295.04;
         int b = 300;
         byte c = (byte) a;
         byte d = (byte) b;
         System.out.println(c++ " " +d);
      }
      ```
      
      e) What is the output of this program?
      Class A
      
      ```java
      int i;
      void display()
      {
         System.out.print(i);
      }
      ```
      
      class B extends A
      
      ```java
      int j;
      void display()
      {
         System.out.println(i);
      }
      ```
      
      P.T.O.
class Test
{
    public static void main(string args[])
    {
        B obj = new B();
        Obj. i = 1;
        Obj. j = 2;
        obj.display();
    }  
}

f) Which of these keywords is used to refer to member of base class from subclass?
   i) Upper   ii) Super   iii) These        iv) None of the mentioned

g) What is the difference between a java applet and a java application?

h) int x = 99, y = 100;
    System.out.print(x%y);
    what is the output of the above fraction of code?

i) What is the other immediate super class of Data Input Stream other than Filter Input Stream?

j) What does get parameter () return.  

UNIT-I

Q.2   a) Explain the importance of JVM in JRE.
       b) Discuss the tools available in JDK. How do they help in application development?
       c) Java was used in internet application. Give reasons.  5x3

Q.3   a) Explain conversions. How is it different from casting?
       b) What are shift operators? How many types of shift operators are available in java?
       c) Explain the following:
           i) Data types in Java.
           ii) Literals in Java.  5x3

UNIT-II

Q.4   a) Write a program to print the following output using for loop.
       1
       2 2
       3 3 3
       4 4 4 4
       5 5 5 5

   b) What is an empty statement? Explain its usefulness.  4
   c) What is precedence? Explain how precedence and associativity are useful in evaluating expressions.  4

Q.5   a) Write a program to complete the sum of the digits of a given integer number.  7
       b) What are binary literals and how are they used in java?  8

UNIT-III

Q.6   a) What are constructors used for? Can the constructor be overloaded? Write a program in support of your answer.

   b) Explain static keyword with all its usage.  8 7
Q.7  a) Define an exception called "No Match Exception" that is thrown when a string is not equal to "India". Write a program that uses this exception.  
   b) Explain the difference between final, finalize() and finally key word in java with example. 

UNIT-IV

Q.8  a) Explain super keyword with all its usage. Support explanation with a program. 
   b) What is an abstract class? Can an abstract class have constructor? Explain. 

Q.9  a) Overloaded methods are early bound whereas overridden methods are late bound. Comment. 
   b) What is interface? How is it different from an abstract class? 
   c) What are package? How are they created and used?
End Semester Examination, May 2014
BCA - Sixth Semester
DATA COMMUNICATION AND NETWORKING (BCA-602)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) In networking terminology UTP means:
   i) Unshielded twisted pair.
   ii) Ubiquitous Teflon port.
   iii) Uniformly terminating port.
b) The communication mode that supports two-way traffic but only one direction at a time is:
   i) Simplex                    ii) Full duplex   iii) Half duplex    iv) Multiplex
c) Thick Coax have maximum segment of:
   i) 500m                        ii) 200m       iii) 100m
   iv) 700m                      iv) POP3
d) Which protocol is used between email servers?
   i) FTP                        ii) SMTP        iii) SNMP       iv) Checksum
   v) POP3

e) Which error detection method involves polynomials?
   i) LRC                        ii) CRC         iii) VRC
   iv) Checksum
f) How many layers does OSI reference model has?
   i) 4                           ii) 5         iii) 6
   iv) 7

g) What is the meaning of bandwidth in network?
   i) Transmission capacity of a communication channel.
   ii) Connected computers in the network.
   iii) Class of IP used in network.
   iv) None of these.
h) Error detection at the data link level is achieved by?
   i) Bit stuffing.
   ii) Hamming codes.
   iii) Cyclic redundancy codes.
   iv) None of the above.
i) What protects the coaxial cable from noise?
   i) Inner conductor.
   ii) Outer conductor.
   iii) Diameter of cable.
   iv) Insulating material.
j) Which provides a connection-oriented reliable service for sending messages?
   i) TCP                        ii) IP         iii) UDP
   iv) All of the above.

UNIT-I

Q.2 a) Discuss the various factors that affect the reliability of a network.

b) Explain why is coaxial cable superior to twisted pair cable.

Q.3 Explain the following:
   a) Characteristics and components of data communication.

b) Disadvantages of optical fiber as a transmission media.

P.T.O.
UNIT-II

Q.4 Explain the operation of error correction method. Given a bit pattern 1000111, generate the formula to calculate the redundancy bits and also find out the position of error at receiving end.  

Q.5 Explain the following:
   a) How does Manchester is different from differential Manchester in case of 10011100.  
   b) Draw ASK and FSK for 11100011.  

UNIT-III

Q.6 What do you mean by topology, discuss following topologies with their merits and demerits?
   a) Star topology.  
   b) Ring topology.  
   c) Tree topology.  

Q.7 What is meant by routing? Explain distance vector routing and hierarchal routing in detail.  

UNIT-IV

Q.8 Discuss circuit switching in detail and also compare TSI to TDM bus.  

Q.9 Explain the concept of token in token ring, what will happen if the token is lost. Discuss and also explain the frame format of token ring.
End Semester Examination, May 2014
BCA - Sixth Semester
MULTIMEDIA AND ANIMATION (BCA-603)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Multiple choice questions:
   a) The text colour in a presentation should contrast with the ________ colour.
      i) CPU.                  ii) Frame.
      iii) Stack.             iv) Background.
   b) Images included in many software titles are called ________.
      i) Clipart.              ii) Popups.
      iii) .jpg file.         iv) .tiff file.
   c) A smaller version of an image is called a:
      i) Clipart.              ii) Bitmap.
      iii) Portable network graphics. iv) Thumbnail.
   d) The hexadecimal code for black colour is:
      i) 000000              ii) FFFFFF
      iii) 000000            iv) EEEEEE
   e) What does GUI stand for?
      i) Gaming user interface.
      ii) Geometric user interface.
      iii) Graphical user interface.
      iv) Guidance user interface.
   f) A ________ is a collection of characters of a single size and style belonging to a
      particular type face family.
      i) Font.                ii) Style.
      iii) Tab.               iv) Toolbar.
   g) The branch of physics that studies sound is called ________.
      i) Auditory.
      ii) Acoustics.
      iii) Biometrics.
      iv) Linguistics.
   h) The process of drawing a series of frames between key frames is called ________.
      i) Storyboarding.
      ii) Morphing.
      iii) Tweening.
      iv) Tweaking.
   i) Which of the following is a feature of 3-D modeling tool?
      i) Autotrace.
      ii) Eyedropper tool.
      iii) Lathe and Extrude.
      iv) Thesaurus.
   j) Which of the following multimedia element places the highest performance
      demand on computer?
      i) Animation.
      ii) Sound.
      iii) Text.
      iv) Video.

UNIT-I

Q.2 Multimedia is shifting from being localized (contained on a CD-ROM) to being
    distributed (available on the World Wide Web). What are some of the implication of
    this? Who will have access to the presentation? How will you keep it secure? How will
    you distribute it? 1½x10

Q.3 a) What are the various elements of multimedia? Explain their role.
   b) Multimedia is vastly used in education. Elaborate.

P. T. O.
UNIT-II

Q.4  a) Describe the difference between a typeface and a font. List at least three attributes of font.  
     b) Discuss the importance of text and ways text can be leveraged in multimedia presentation.  

Q.5  a) Define hypermedia, hypertext, links, anchors and nodes.  
     b) Discuss both the potential and limitations of hypertext and hyper linking system.  

UNIT-III

Q.6  a) Discuss the difference between bitmap and vector graphics. Describe five different graphic elements you might use in a project, for ex, the background, buttons, icons or text. Would you use a vector tool or a bitmap tool for each element? Why?  
     b) Differentiate between lossy and lossless compression.  

Q.7  a) What is compression and decompression? What is the need for the same?  
     b) Explain different compression principles and the different methods used for encoding.  

UNIT-IV

Q.8  a) Differentiate between 2 D and 3 D animation along with examples.  
     b) Explain the effects of resolutions, pixel depth, and image size on quality and storage.  

Q.9  Write short notes on any three:  
     a) Morphing.  
     b) Kinematics and dynamics.  
     c) Keyframe system.  
     d) Use of animation in Multimedia.  

5x3
End Semester Examination, May 2014
MCA - First Semester
PROGRAMMING THROUGH 'C' LANGUAGE (MCA-101)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) In the following code what is C:
   typedef Char*Charp;
   Const, Charp C;
   i) Constant. ii) Character constant.
   iii) Character type. iv) None of these.

b) Which of the following symbol allowed in a variable name?
   i) * ii) 1 iii) - iv) /

   c) When we mention prototype of a function?
   i) Defining. ii) Declaring.
   iii) Prototyping. iv) Calling.

d) By default a real number is created as:
   i) Float. ii) Double.
   iii) Long double. iv) Tar double.

e) Malloc() allocates memory from:
   i) Heap. ii) Stack.
   iii) typedef. iv) Queue.

f) Which of the following are unary operations C?
   i) ! ii) sizeof iii) -
   iv) All of the above.

g) Which bitwise operator is suitable for checking whether a particular bit is on or off?
   i) & & ii) &. iii) || iv) !

h) How will you print \n on the screen?
   i) printf("\n"); ii) printf("\n");
   iii) echo "\n" iv) printf("\n");

   i) The library function used to find the last occurrence of character in a string is:
   i) strstr() ii) laststr()
   iii) strchr() iv) strstr()

   j) What function should be used to free the memory allocated by Colloc()?
   i) dealloc(); ii) malloc();
   iii) memalloc(); iv) free();

UNIT-I

Q.2 a) What are the various data types available in 'C' language?

b) What is the difference between declaration and definition? Explain with the help of an example.

Q.3 a) What is the difference between getch(), getche(), getchar()?

b) What are the various methods available for problem solving?

UNIT-II

Q.4 What do you mean by storage classes? Explain the various storage classes available in 'C' language.

P. T. O.
Q.5 Explain the following:
   a) Goto statement
   b) Switch-case statement
   c) Functions

UNIT-III

Q.6
   a) What do you mean by sparse matrix?
   b) Write a program to sort a list of names given by the user.

Q.7 Explain the following:
   a) Array of pointer
   b) Dynamic memory allocation
   c) Call by reference

UNIT-IV

Q.8
   a) How can we pass a structure to a function? Explain with an example.
   b) What is the use of argc and argv in command line argument?

Q.9 Differentiate the following:
   a) Opening mode rt and wt
   b) Structure and union
   c) fopen and fclose
Time: 3 hrs

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Find the relation R whose digraph is shown below:

b) Write recursive formula for the factorial function.
c) Define contra positive of a conditional statement.
d) What is necessary and sufficient condition for a subset H of a group G to be a subgroup of G?
e) Draw Hasse diagram of the lattice $D_{10}$.
f) Which of the following is not a Boolean algebra?
   i) $D_{30}$
   ii) $D_{66}$
   iii) $D_{20}$
   iv) $D_{210}$
g) State Euler's formula for connected planar graph.
h) How many spanning trees are there in the complete graph $K_n$?
i) If $L = [a^n b^m; m, n > 0]$ is a language over $A = \{a, b\}$, find a regular expression $r$ such that $L = L(r)$.
j) Define a finite state machine.  

UNIT-I

Q.2 a) Show that countable union of countable sets is countable.  
b) Find the particular solution of the difference equation: 
   $a_n - 4a_{n-1} + 5a_{n-2} = 2$  

Q.3 a) Verify the validity of the following argument form: 
   $p \rightarrow q$ 
   $p$ 
   $\therefore q$  
b) How many people at least, in a group of 85 people, have the same last initials?  

UNIT-II

Q.4 a) Let $G$ be a group. If $a, b \in G$, show that $(ab)^{-1} = b^{-1}a^{-1}$.  
b) Show that intersection of two subgroups of a group is again a subgroup of that group.  

Q.5 a) Show that the lattice $D_{12}$ is distributive whereas $(A, \preceq)$, where $A = \{1, 2, 3, 4, 12\}$ and $\preceq$ is partial order of divisibility, is not distributive. 
b) Use Karnaugh map to find minimal sum of product form for the expression:  
   $E = xy'z + x'yz + x'y + x'yz'$  

P. T. O.
UNIT-III

Q.6  a) Discuss seven bridges problem along with its graphical representation.
    b) Use Kruskal’s algorithm to find a shortest spanning tree for the graph given below:

    ![Graph Image]

Q.7  a) Evaluate the polish form:
    \[ + - 64 + 5 / 22 \]
    b) Find a maximal flow in the network given below:

    ![Network Image]

UNIT-IV

Q.8  a) Design a finite state automation that accepts those strings over \{0,1\} such that the
    number of zeros is divisible by 3.
    b) Define moore machine and mealy machine. Point out how they differ from each other.

Q.9  a) Define grammar. Find the language \(L(G)\) over \(\{a,b\}\) generated by the grammar with
    production.
    \[ \sigma \rightarrow b\sigma, \sigma \rightarrow aA, A \rightarrow bA, A \rightarrow b, \] where \(\sigma\) is the starting symbol.
    b) Find the derivation tree for the word \(aabbab\) in \(L(G)\), where the grammar \(G\) has the
    production.
    \[ \sigma \rightarrow aA, A \rightarrow aB, B \rightarrow bB, B \rightarrow a. \]
End Semester Examination, May 2014
MCA - First Semester
DIGITAL DESIGN AND COMPUTER ORGANISATION (MCA-105)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Multiple choice questions:
   a) The format used to present the logic output for the various combinations of logic inputs to a gate is called a.
      i) Boolean constant
      iii) Truth table
      iii) Boolean variable
      iv) Input logic function
   b) When grouping cells within a k-map, the cells must be combined in group of?
      i) 2's.
      ii) 1, 2, 4, 8 etc.
      iii) 4's.
      iv) 3's.
   c) Memory mapped I/O involves.
      i) Transferring information between memory locations.
      ii) Transferring information between register and memory.
      iii) Transferring information between CPU and I/O devices in the same way as between the CPU and memory.
      iv) Transferring information between I/O devices and memory.
   d) Half adder circuit is:
      i) Half of an AND gate
      ii) A circuit to add two bits together
      iii) Half of a NAND gate
      iv) None of the above
   e) A stack is:
      i) An 8 bit registers in the microprocessor
      ii) A 16 bit registers in the microprocessor
      iii) A 16 bit memory address stored in the program counter
      iv) A set of memory locations in read write memory reserved for storing information temporarily during the execution of computer.
   f) Name the control unit which is once designed no further change is possible.
      i) Hardwired
      ii) Micro programmed
      iii) Firmware
      iv) Programmed
   g) How many flip flops are required for mod-16 counter?
      i) 5
      ii) 6
      iii) 3
      iv) 4
   h) How many address lines are needed to address each memory location in a 2048 x 4 memory chip?
      i) 10
      ii) 11
      iii) 8
      iv) 12
   i) _________ is the sequence of operation performed by CPU in processing an instruction.
      i) Execute cycle
      ii) Fetch cycle
      iii) Decode
      iv) Instruction cycle
   j) The Hamming code is a method of:
      i) Error detection
      ii) Error correction
      iii) Error encapsulation
      iv) Both i) and ii)
   k) The device used to connect a peripheral to bus is called:
      i) Control register
      ii) Interface
      iii) Communication protocol
      iv) None of these

1½x10

P. T. O.
UNIT-I

Q.2 What are hamming code? How the data bits are encoded? A 7 bit hamming code is received as 0110110. What is its correct code? 15

Q.3 a) Convert the following expression to the other canonical form:
   \[ F(A, B, C, D) = \overline{0, 1, 2, 3, 4, 6, 12} \]
   b) Write short notes on:
      i) Gray code.
      ii) EBCDIC. 4x2

UNIT-II

Q.4 Design a 4 bit by 3 bit array multiplier. 15

Q.5 Explain the switching mode operation of PN Junction. 15

UNIT-III

Q.6 Draw a master slave JK flip flop. Explain its operation and show that race around condition is eliminated. 15

Q.7 Draw the circuit of serial in serial out or serial out parallel in shift register and explain its working. 15

UNIT-IV

Q.8 Explain the difference hardwired control unit and micro programmed control unit. Explain micro program sequencer. 15

Q.9 What do you understand by an instruction format? What are the criteria for deciding the format of instruction in the design of a computer? What are the various types of instruction format? 15
End Semester Examination, May 2014
MCA - Second Semester
DATA AND FILE STRUCTURES USING 'C' (MCA-201)

Time: 3 hrs\hspace{0.5cm} Max Marks: 75
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1 a) A Stack is an ordered list in which all insertions and deletions are made at one end, called the______.
   i) Bottom \hspace{0.5cm} ii) Top
   iii) Medium \hspace{0.5cm} iv) Order

b) The complexity of Bubble sort algorithm is:
   i) O (n) \hspace{0.5cm} ii) O (log n)
   iii) O (n^2) \hspace{0.5cm} iv) O (n log n)

c) The operation of processing each element in the list is called ________.
   i) Sorting \hspace{0.5cm} ii) Merging
   iii) Inserting \hspace{0.5cm} iv) Traversal

d) Which is of the following sorting procedure is the slowest?
   i) Quick sort \hspace{0.5cm} ii) Heap sort
   iii) Shell sort \hspace{0.5cm} iv) Bubble sort

e) Linked list is the collection of:
   i) Header \hspace{0.5cm} ii) Node
   iii) Thread \hspace{0.5cm} iv) Array

f) ________ is a linear data structure.
   i) Linked list \hspace{0.5cm} ii) Stack
   iii) Queue \hspace{0.5cm} iv) All of the above

g) Overflow is a term related to ________ operation of stack.
   i) Push \hspace{0.5cm} ii) Pop
   iii) Display \hspace{0.5cm} iv) Exit

h) Recursion is the application of ________.
   i) Stack \hspace{0.5cm} ii) Queue
   iii) Tree \hspace{0.5cm} iv) Graph

i) In doubly linked list, a node is divided into ________ parts.
   i) 2 \hspace{0.5cm} ii) 3 \hspace{0.5cm} iii) 1 \hspace{0.5cm} iv) 4

j) How many different trees are possible with 10 nodes?
   i) 1016 \hspace{0.5cm} ii) 1014 \hspace{0.5cm} iii) 1015 \hspace{0.5cm} iv) 1018

1x15

UNIT-I

Q.2 a) What is the disadvantage of linear queue? How can we overcome this? 9
   b) What is the structure of a node in doubly linked list? How can we insert an
element at the beginning of doubly linked list? Write the algorithm for the same. 6

Q.3 a) How can one analyse the performance of an algorithm? 7
   b) What are the various operations that we can perform on stack? Illustrate. 8

UNIT-II

Q.4 a) Write short notes on:
   i) AVL Tree
   ii) M-Way Tree. 10
   b) What is the characteristic of binary search tree? 5
Q.5  
a) Write algorithm for "in-order" traversal of a tree.  
b) Find the preorder traversal of following tree.

Q.6  
a) What are the various ways to represent a graph?  
b) Define:  
   i) Null graph  
   ii) Isolated node  
   iii) Weighted graph  
   iv) Directed graph

Q.7  
Write algorithm for single source shortest path. Also find the shortest path of given graph with (A) as a source vertex.

Q.8  
a) Write the recursive procedure for binary search.  
b) Create a B-Tree with given nodes:  
   14, 2, 4, 8, 15, 3, 5

Q.9  
a) Write algorithm for quick sort.  
b) What do you mean by Hash table?
End Semester Examination, May 2014
MCA - Second Semester
OBJECT ORIENTED PROGRAMMING USING C++ (MCA-203)

Time: 3 hrs
Max Marks: 75
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory; All questions carry equal marks.

Q.1 Multiple choice questions:
   a) The body of a C++ function is surrounded by
      i) Parenthesis
      ii) Angle brackets
      iii) Curly brackets
      iv) Square brackets
   b) Which of the following data type is used to represent the absence of parameters?
      i) int
      ii) short
      iii) void
      iv) float
   c) Which of the following concepts means determining at runtime what method to invoke?
      i) Data hiding
      ii) Dynamic typing
      iii) Dynamic binding
      iv) Dynamic loading
   d) Which of the following concepts of OOPS allows compiler to insert arguments in a
      function call if it is not specified?
      i) Call by value
      ii) Call by reference
      iii) Default arguments
      iv) Call by pointer
   e) How many types of polymorphisms are supported by C++?
      i) 1
      ii) 2
      iii) 3
      iv) 4
   f) What are advantages of passing arguments by reference?
      i) Changes to parameter values within the function also affect the original
         arguments.
      ii) There is no need to copy parameter values
      iii) There is no need to call constructor for parameter
      iv) All the above
   g) What happens if the base and derived class contain definition of a function with
      same prototype?
      i) Compiler reports an error on compilation
      ii) Only base class function will get called irrespective of object.
      iii) Only derived class function will get called irrespective of object.
      iv) Base class object will call base class function and derived class object will call
         derived class function.
   h) Which of the following statements regarding inline function is correct?
      i) It speeds up execution
      ii) It slows down execution
      iii) It increases the code size
      iv) Both i) and iii)
   i) What kind of exceptions are available in C++?
      i) Handled
      ii) Unhandled
      iii) Static
      iv) Dynamic
   j) What is a function template?
      i) Creating a function with having to specify the exact type
      ii) Creating a function with having an exact type
      iii) Both i) and ii)
      iv) None of the mentioned.

1½x10
P. T. O.
UNIT-I

Q.2 What are basic principles of object oriented programming? Explain with examples how they are implemented in C++.

Q.3 Describe data types in C++ with details. Differentiate between user defined data type and derived data type.

UNIT-II

Q.4 Write a program to implement constructor, copy constructor and destructor.

Q.5 Give a programming example that overloads == operator with its use.

UNIT-III

Q.6 In what order the class constructors are called when the derived class object is created? Explain with an example.

Q.7 a) Explain pointer to objects and this pointer.
b) What the rules that need to be kept in mind in deciding virtual functions.

UNIT-IV

Q.8 Define manipulators and also mention the manipulators that are used in C++.

Q.9 a) What are templates? Explain function template.
b) Write a short note on aggregation.
c) Write a short note on Microsoft Foundation Class (MFC).
End Semester Examination, May 2014  
MCA - Second Semester  
LINEAR ALGEBRA AND STATISTICAL TECHNIQUES (MCA-204)

Time: 3 hrs 
Max Marks: 75 
No. of pages: 3

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) Define linear transformation $T$ from a vector space $V$ into a vector space $W$.
b) Find the null space of $T: V_2 \rightarrow V_3$ defined by $T(a_1, a_2) = (a_1, a_1 + a_2)$. Is this mapping one-one? 
c) Define rank of a matrix.
d) The sum of the eigenvalues of the matrix:
   \[
   \begin{bmatrix}
   6 & -2 & 2 \\
   -2 & 3 & -1 \\
   2 & -1 & 3 \\
   \end{bmatrix}
   \]
i) 54 ii) 12 iii) 6 iv) 9 
e) State consistency theorem for a system of linear equations.
f) Define conditional probability.
g) Write binomial distribution for a binomial random variable $x$.
h) When a sample is said to be large?
i) Write the dual of the following LPP:
Maximize $z = 2x_1 + 3x_3 + 5x_5$
subjected to the constraints
$5x_1 + 6x_2 - x_3 \leq 3$
$-2x_1 + x_2 + 4x_3 \leq 4$
$x_1 - 5x_3 + 3x_4 \leq 1$
$3x_1 - 3x_2 + 7x_3 \leq 6$ and
$x_1, x_2, x_3, x_4, x_5 \geq 0$
j) When a solution of transportation problem is said to be degenerate? 1 1/2 x 10

UNIT-I

Q.2 a) Using Gauss-Jordan method, find the inverse of the matrix:
   \[
   \begin{bmatrix}
   1 & 3 & 3 \\
   1 & 4 & 3 \\
   1 & 3 & 4 \\
   \end{bmatrix}
   \]
b) Reduce the matrix:
   \[
   A = \begin{bmatrix}
   -1 & 2 & -2 \\
   1 & 2 & 1 \\
   -1 & -1 & 0 \\
   \end{bmatrix}
   \]
to row reduced echelon form and hence find its rank. 7 1/2

Q.3 a) Show that the following set of vectors in $R^3$ is linearly independent: 
   \{(1,0,1), (0,1,0), (1,1,1)\}. 7 1/2
b) Find the matrix of the linear transformation $T: V_2 \rightarrow V_3$ defined by
   \[T(x_1, x_2) = (x_1 + 3x_2, 0, 2x_1 - 4x_2)\] 7 1/2

P. T. O.
UNIT-II

Q.4  a) Show that the transformation:
\[ \begin{align*}
    y_1 &= \frac{1}{3} x_1 + \frac{2}{3} x_2 + \frac{2}{3} x_3, \\
    y_2 &= \frac{2}{3} x_1 + \frac{1}{3} x_2 - \frac{2}{3} x_3, \\
    y_3 &= \frac{1}{3} x_1 - \frac{2}{3} x_2 + \frac{1}{3} x_3,
\end{align*} \]
\[ \text{is orthogonal.} \]

b) Solve by matrix method:
\[ \begin{align*}
    x + 3y - 2z &= 0 \\
    2x - y + 4z &= 0 \\
    x - 11y + 14z &= 0
\end{align*} \]

Q.5  a) Diagonalize the matrix \[
\begin{bmatrix} 4 & 1 \\ 2 & 3 \end{bmatrix} \]

b) Verify Cayley-Hamilton theorem for the following matrix:
\[
A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}
\]

UNIT-III

Q.6  a) Out of the following two regression lines, find the regression line of \( y \) on \( x \).
\[ x + 4y = 3 \quad \text{and} \quad y + 3x = 15. \]

b) A problem in mathematics is given to three students whose chances of solving the problem are \( \frac{1}{2}, \frac{1}{3}, \frac{1}{4} \). What is the probability that the problem is solved?

Q.7  a) The probability that a bomb dropped from a plane will strike the target is \( \frac{1}{5} \). If 6 bombs are dropped, find the probability that:
   i) Exactly two will strike the target.
   ii) At least 2 will strike the target.

b) In an opinion poll conducted with a sample of 2000 people chosen at random, 40 \% people told that they support a certain political party. Find a 95 \% confidence interval for the actual proportion of the population who support this party.

UNIT-IV

Q.8  a) Show that there is no feasible solution to the LPP:
\text{Maximize } z = x + y
\text{Subjected to the constraints}
\[ x - y \geq 0 \\
3x - y \leq -3 \\
\text{and } x, y \geq 0. \]

b) Use the simple method to solve the following LPP:
\text{Maximize } z = 2x + 3y
\text{Subjected to the constraints}
\[ 3x + 6y \leq 24 \\
2x + y \leq 10 \\
\text{and } x \geq 0, y \geq 0 \]
Q.9  

a) Find initial basic solution of the following transportation problem using VAM:

<table>
<thead>
<tr>
<th></th>
<th>D_1</th>
<th>D_2</th>
<th>D_3</th>
<th>D_4</th>
<th>Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_1</td>
<td>2</td>
<td>3</td>
<td>11</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>C_2</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>C_3</td>
<td>5</td>
<td>8</td>
<td>15</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>Demand</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

b) Solve the following transportation problem:

<table>
<thead>
<tr>
<th></th>
<th>D_1</th>
<th>D_2</th>
<th>D_3</th>
<th>D_4</th>
<th>Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_1</td>
<td>20</td>
<td>21</td>
<td>16</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>C_2</td>
<td>17</td>
<td>28</td>
<td>14</td>
<td>16</td>
<td>9</td>
</tr>
<tr>
<td>C_3</td>
<td>29</td>
<td>23</td>
<td>19</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td>Demand</td>
<td>6</td>
<td>10</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
End Semester Examination, May 2014
MCA - Third Semester
OPERATING SYSTEMS (MCA-301)

Time: 3 hrs                                      Max Marks: 75
Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
      Q.1 is compulsory. All questions carry equal marks.

Q.1    Multiple choice questions:
  a) Shell is exclusive feature of:
     i) UNIX.                                      ii) DOS.
     iii) System software.                        iv) Application software.
  b) The operating system of a computer serves as a software interface between the
     users and ________.
     i) Hardware.                                 ii) Peripheral.
     ii) Memory.                                  iv) Screen.
  c) A scheduler which selects processes from secondary storage device is called:
     i) Short term scheduler.                    ii) Long term scheduler.
  d) The scheduling in which CPU is allocated to the process with least CPU burst time
     is called:
     i) Priority scheduling.                    ii) Shortest job first scheduling.
  e) Before proceeding with its execution, each process must acquire all the resources
     it needs is called:
     i) Hold and wait.                          ii) No pre-emption.
     ii) Circular wait.                          iv) Starvation.
  f) Process state is a part of:
     i) Process control block.                  ii) Inode.
     ii) File allocation table.                 iv) None of the above.
  g) Virtual memory is:
     i) Simple to implement.                    ii) Used in all major commercial operating systems.
     ii) Less efficient in utilization of memory.
     iii) Useful when fast I/O devices are not available.
  h) In which of the following page replacement policies Belady’s anomaly occurs?
     i) FIFO.                                   ii) LRU.
     iii) LFU.                                   iv) NRU.
  i) Which directory implementation is used in most operating system?
     i) Single level directory structure.        ii) Two level directory structure.
     ii) Tree directory structure.              iii) Acyclic directory structure.
  j) The total time to prepare a disk drive mechanism for a block of data to be read
     from is its:
     i) Latency.                                 ii) Latency plus transmission time.
     ii) Latency plus seek time.                 iii) Latency plus seek time plus transmission time.

UNIT-I

Q.2    Explain the layered approach of O.S. Also discuss in detail the concept of KERNEL and
      SHELL.

P. T. O.
Q.3  a) Describe the essential properties of the following operating systems:
   i) Real time.
   ii) Distributed operating system.
   b) What are the benefits of multiprogramming? 10

   UNIT-II

   Q.4  What is the average turnaround time for the following processes using?
   a) FCFS  
   b) SJF non-preemptive  
   c) Preemptive SJF

<table>
<thead>
<tr>
<th>Process</th>
<th>Arrival time</th>
<th>Burst time</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>0.0</td>
<td>8</td>
</tr>
<tr>
<td>P2</td>
<td>0.4</td>
<td>4</td>
</tr>
<tr>
<td>P3</td>
<td>1.0</td>
<td>1</td>
</tr>
</tbody>
</table>

   Q.5  Suppose there are 2 copies of resource A, 3 copies of resource B, and 3 copies of
   resource C. Suppose further that process 1 holds one unit of resource B and C and is
   waiting for a unit of A; that process 2 is holding a unit of A and waiting on a unit of B;
   and that process 3 is holding one unit of A, two units of B and one unit of C. Draw the
   resource allocation graph. Is the system in a deadlocked state? Why or why not? 15

   UNIT-III

   Q.6  Explain the difference between:
   a) Logical and physical address space.
   b) Internal and external fragmentation.
   c) Paging and segmentation. 15

   Q.7  Given memory partitions of 100 k, 500 k, 200k, 300 k, and 600 k. How would each of
   the algorithms (first fit, best fit, worst fit) place processes of 212 k, 417 k, 112 k and
   426 k? Which algorithm makes the most efficient use of memory? 15

   UNIT-IV

   Q.8  Discuss the following with suitable examples:
   a) File attributes.
   b) File operations.
   c) File types. 5x3

   Q.9  a) How is a directory different from a file? What are the limitations of acyclic directory
   structure? 9
   b) What is authentication? Why is it required in using passwords and digital
   signatures? 6
End Semester Examination, May 2014
MCA - Third Semester
WEB APPLICATION AND E-COMMERCE (MCA-302)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1  

a) HTML uses:
   i) Pre-specified tags.
   ii) User defined tags.
   iii) Tags only for linking.
   iv) Fixed tags defined by language.

b) Mechanism to protect private networks from outside attack is:
   i) Firewall.
   ii) Antivirus.
   iii) Formatting.
   iv) Digital signature.

c) The tag in HTML to include external style sheets.
   i) <ext>.
   ii) <link>.
   iii) include.
   iv) <a>.

d) Write the full form of IIS.

e) _______ tag is used to create an HTML form.

f) DOM is the abbreviation of _______.

g) _______ selector is used to specify a style for multiple elements.

h) The string object is used to manipulate _______.

i) Which of the following is not scripting language?
   i) HTML.
   ii) XML.
   iii) PostScript.
   iv) JavaScript.

j) W3C is abbreviation of _______.

UNIT-I

Q.2  

a) Discuss various tools available for connecting to Internet.  
   b) Write a short note on internal server.

Q.3  

a) Describe the role of HTTP and HTML in website designing.
   b) Write a short note on file transfer protocol.

UNIT-II

Q.4  

a) Write the difference between HTML and DHTML.
   b) Write a program to create new window and operate it using on click event.
   c) What is inline style? How it is linked in a tag?

Q.5  

a) What is form validation? Write a program in JavaScript to validate a form.
   b) What is the role of document object?

UNIT-III

Q.6  

a) Write the differences between JavaScript and VBScript.
   b) How the objects are created in JavaScript. How can we access their values?
   c) Write a program in JavaScript to change the text.

Q.7  

Design a personal page with details about your family, your interests, hobbies, bio-data etc. using JavaScript forms.

P. T. O.
UNIT-IV

Q.8  a) Explain the role of server and session object in ASP.  
     b) Write a code in ASP to read and write file.  

Q.9  a) What is digital signature? Why is it necessary in E-commerce? 
     b) What are the main differences between electronic cheque payment and credit card payment?
End Semester Examination, May 2014
MCA - Third Semester
COMPUTER SYSTEM ARCHITECTURE (MCA-303)

Time: 3 hrs  Max Marks: 75

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
      Q.1 is compulsory. All questions carry equal marks.

Q.1 Multiple choice questions:
   a) Interrupts which are initiated by an input output drive are:
      i) Internal.  ii) External.
      iii) Software. iv) All of the above.
   b) This technique for data transfers does not involve the processor:
      i) Direct memory access. ii) Programmed I/O.
      iii) Memory-mapped I/O. iv) All of the above.
   c) The program counter:
      i) Stores the address of the instruction that is currently been executed.
      ii) Stores the next instruction to be executed.
      iii) Stores the address of the next instruction to be executed.
      iv) Stores the address of all instruction.
   d) Which algorithm is a multiplication algorithm which multiplies two signed binary
      number is 2's component notation?
      i) Usual multiplication. ii) Booth's multiplication.
      iii) Both. iv) None of these.
   e) In reverse polish notation, expression A*B+C*D is written as:
      i) A*B*C*D+. ii) A*B*C*D*.
      iii) A*B*C*D+. iv) A*B*C*D*.
   f) In a virtual memory system the addresses used by the programmer belongs to:
      i) Memory space. ii) Physical addresses.
      iii) Address space. iv) Main memory address.
   g) The method of updating the main memory as soon as the word is removed from
      the cache is known as:
      i) Write through. ii) Write back.
      iii) Protected write. iv) Cache write.
   h) A control character is sent at the beginning as well as at the end of each block in
      the synchronous transmission in order to:
      i) Synchronize the clock of transmitter and receiver.
      ii) Supply information needed to separate the incoming bits into individual
          character.
      iii) Detect the error in transmission and received system.
      iv) Both i) and iii).
   i) Zero address instruction format is used for:
      i) RISC architecture. ii) CISC architecture.
      iii) Von Neuman architecture. iv) Stack organized architecture.
   j) Associative memory is sometimes called as:
      i) Virtual memory. ii) Cache memory.
      iii) Main memory. iv) Content addressable memory.

1½x10

P. T. O.
UNIT-I

Q.2 What do you understand by an instruction format? What are the criteria for deriding the format of instruction in the design of a computer? What are various types of instruction formats?

Q.3 Multiple (-23) with (10) by using Booth’s multiplication. Give the flow table of multiplication.

UNIT-II

Q.4 Explain asynchronous based data transfer. Explain stroke based and handshaking based data transfer.

Q.5 What do you mean by direct memory access? Why does DMA have priority over the CPU when both are used for memory transfer?

UNIT-III

Q.6 What is the role of mapping function in cache organization? Discuss the direct mapping technique in detail. Also discuss different cache writing algorithms.

Q.7 What is an associative memory? How is it different from other memories? Explain its organization.

UNIT-IV

Q.8 Define pipelining. When, where and why is it necessary? How instruction pipelining and arithmetic pipelining are achieved? Explain.

Q.9 Write short notes on:
   a) Classification of pipelining processor.
   b) Architectural classification schemes.
End Semester Examination, May 2014  
MCA - Third Semester  
COMPUTER GRAPHICS AND MULTIMEDIA (MCA-304)

Time: 3 hrs  
Max Marks: 75  
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) A smaller version of an image is called a:  
   i) Clipart.  
   ii) Bitmap.  
   iii) Portable network graphics.  
   iv) Thumbnail.

b) ____ refers to any type of application or presentation that more than one type of media, such as text, graphics, video, animation and sound.  
   i) An executable file.  
   ii) Desktop publishing.  
   iii) Multimedia.  
   iv) Hypertext.

c) Z-buffer algorithm is:  
   i) Simplest.  
   ii) Complex.  
   iii) Largest.  
   iv) None.

d) More the control point of a Bezier curve ______ the quality of a curve.  
   i) Higher.  
   ii) Lower.  
   iii) Bad.  
   iv) None.

e) The projection that can be viewed as the projection that has a centre of projection at a finite distance from the plane of projection are called:  
   i) Parallel projection.  
   ii) Perspective projection.  
   iii) Isometric projection.  
   iv) None of these.

f) ____ refers to a model that represents all the dimension of an object external as well as internal.  
   i) Wire frame model.  
   ii) Constructive solid geometric model.  
   iii) Composite transformation.  
   iv) None of these.

g) The transformation in which an object can be rotated about origin as well as any arbitrary pivot point are called:  
   i) Translation.  
   ii) Scaling.  
   iii) Rotation.  
   iv) All of these.

h) A position in plane is known as:  
   i) Line.  
   ii) Point.  
   iii) Graphics.  
   iv) None of these.

i) The process of cutting off the line which are outside the window is called:  
   i) Shear.  
   ii) Reflection.  
   iii) Clipping.  
   iv) Clipping window.

j) Joystick are often used to control:  
   i) Typing.  
   ii) Video games.  
   iii) Voice.  
   iv) None of these.

1½x10

UNIT-I

Q.2  
a) What do you mean by graphics software? Explain in details.  
b) Explain the working of flat panel display techniques. Explain the application of LCD’s.

Q.3  
a) Discuss the various input and output device.  
b) What do you mean by seed fill algorithm? Explain its different types.  
c) What do you mean by rubber band method?  

P. T. O.
UNIT-II

Q.4  a) Prove that two consecutive translation are additive.  
     b) What is the convex hull property of Bezier curve? 

Q.5  a) What are the steps required to plot a line using Bresenhem’s line drawing algorithm?  
     b) What do you mean by scan conversion? What are the adverse effect of scan conversion? 

UNIT-III

Q.6  a) What do you understand by 3D? How will you differentiate it from 2D?  
     b) What is difference between parallel and perspective projection? Explain in details. 

Q.7  a) What do you mean by wireframe model? What are the advantages and disadvantages of this model?  
     b) What do you mean by key framing, tweening, and morphing? Explain different applications of morphing. 

UNIT-IV

Q.8  a) What are the different factors on which quality of an image is dependent? Explain in details.  
     b) Why compression is required? Explain some situation in which you will compress the image. 

Q.9  a) State the difference between JPEG and MPEG. 
     b) Explain different types of image formats in detail.
End Semester Examination, May 2014
MCA - Third Semester
SOFTWARE ENGINEERING (MCA-305)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.
Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) During software development, which factor is most crucial.
   i) People. ii) Product.
   iii) Process. iv) Project.

b) If project is enhancement of existing system, which model is best suited.
   i) Waterfall model. ii) Prototyping model.
   iii) Iterative enhancement model. iv) Spiral model.

c) Which one is not a maintenance model?
   i) CMM. ii) Iterative enhancement model.
   iii) Quick-fix model. iv) Reuse-qiunted model.

d) Alpha testing is done by:
   i) Customer. ii) Tester.
   iii) Developer. iv) All of the above.

e) Cyclomatic complexity is developed by:
   i) B.W. Boehm. ii) T.J. Mc Cabe.
   iii) B.W. Little wood. iv) Victor Basili.

f) As reliability increase, failure intensity.
   i) Decrease. ii) Increase.
   iii) No effect. iv) None of these.

g) Software quality is:
   i) Conformance to requirements. ii) Fitness to the purpose.
   iii) Level of satisfaction. iv) All of the above.

h) Spiral model is developed by:
   i) Bev little wood. ii) Berry Boehm.
   iii) Roger pressman. iv) Victor basite.

i) Software mistakes during coding are known as:
   i) Failures. ii) Bugs.
   iii) Fault. iv) Mistakes.

j) In function point analysis, numbers of complexity adjustment factors are:
   i) 10 ii) 20 iii) 14 iv) 12

UNIT-I

Q.2  
a) What are fundamental activities of software process?
   b) What are prototyping approaches in software process?

Q.3  Explain spiral model in detail? List out the drawbacks of spiral model.

UNIT-II

Q.4  
a) Differentiate process and product metrics.
b) Find the critical path for the activity graph given below:

[Diagram of an activity network with nodes and edges labeled with numbers representing time in units.]

Q.5  a) Explain Putnam resource allocation model. What are the limitations of this model?  

b) What is the purpose of timeline chart?  

UNIT-III

Q.6  a) Write a short note on software reliability.  

b) Describe user interface design process with suitable diagram.  

Q.7  a) Explain basic and logarithmic poisson model and their significance in reliability studies.  

b) What is the significance of software reliability engineering?  

UNIT-IV

Q.8  What is functional testing? Explain any two methods for selecting test cases for functional testing.  

Q.9  a) Explain various automated tools and techniques for software maintenance.  

b) What are the objectives of SCM process?
End Semester Examination, May 2014  
MCA - Fourth Semester  
RAPID APPLICATION DEVELOPMENT (MCA-401)

Time: 3 hrs  Max Marks: 75  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.

Q.1  
a) The two numeric data types available in VB are _______ and _______.  
b) OLE stands for _______.  
c) _______ and _______ are the two types of report that can be built in VB.  
d) Byte data type takes _______ number of bytes.  
e) _______ is used to obtain the length of a string in VB.  
f) General procedures are defined in _______.  
g) Two important properties of a text-box in VB are _______ and _______.  
h) _______ and _______ are the two conditional statements available in VB.  
i) _______ control is used to display list of items in VB.  
j) _______ is the method to add an item in a combo box.  
k) A checkbox in VB has _______ number of states.

UNIT-I

Q.2  
What do you mean by GUI? Explain the features of VB that makes it a popular language to create GUIs.  

Q.3  
Explain the following terms:  
a) IDE (Integrated Development Environment)  
b) Procedural language  
c) Properties Windows.

UNIT-II

Q.4  
a) Explain the difference between general procedure and function with an example.  
b) Write a program in VB to print the ASCII value of the character selected in a string entered in a textbox.

Q.5  
a) Explain the difference between SDI form and MDI form in VB.  
b) What is a module in VB? Explain the purpose of adding a module in a project in VB using an example.

UNIT-III

Q.6  
Explain all the data types available in VB.  

Q.7  
What-do you mean by UDT (User defined data type)? Explain the purpose of using UDT with an example.

UNIT-IV

Q.8  
Explain the following terms:  
a) Database driver  
b) Structured query language  
c) Bound data controls

Q.9  
Explain the properties that are required to be set for an ADO and RDO control to connect a VB form to a table in MS Access database.
End Semester Examination, May 2014
MCA - Fourth Semester
ARTIFICIAL INTELLIGENCE (MCA-402)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Select the correct alternatives:
   a) What is state space?
      i) The whole problem.
      ii) Your definition to a problem.
      iii) Problem you design.
      iv) Representing your problem with variable and parameter.
      v) A space where you know the solution.
   b) Which search method takes less memory?
      i) Depth-First Search
      ii) Breadth-First Search
      iii) Both i) and ii)
      iv) Linear Search.
   c) What are you predicates by the logic: \( \forall x : E(x) \) loyal to \((s, y)\)?
      i) Everyone is loyal to someone.
      ii) Everyone is loyal to all.
      iii) Every one is not loyal to someone.
      iv) Everyone is loyal.
      v) Everyone is not loyal.
   d) Neural Networks are complex with many parameters.
      i) Linear Functions
      ii) Nonlinear Functions
      iii) Discrete Functions
      iv) Exponential Functions
      v) Power Functions.
   e) An algorithm is complete if
      i) It terminates with a solution when one exists.
      ii) It starts with a solution.
      iii) It does not terminate with a solution.
      iv) It has a loop.
      v) It has a decision parameter.
   f) In language understanding, the levels of knowledge that does not include.
      i) Phonological.
      ii) Syntactic
      iii) Semantic
      iv) Logical.
      v) Empirical.
   g) What is a top-down parser?
      i) Begins by hypothesizing a sentence (the symbol S) and successively predicting lower level constituents until individual preterminal symbols are written.
      ii) Begins by hypothesizing a sentence (the symbol S) and successively predicting upper level constituents until individual preterminal symbols are written.
      iii) Begins by hypothesizing lower level constituents and successively predicting a sentence (the symbol S).
      iv) Begins by hypothesizing upper level constituents and successively predicting a sentence (the symbol S).
      v) All the above.
   h) Which of the following is true related to 'Satisfiable' property?
      i) A statement is satisfiable if there is some interpretation for which it is false.
      ii) A statement is satisfiable if there is some interpretation for which it is true.

P.T.O
iii) A statement is satisfiable if there is no interpretation for which it is true.
iv) A statement is satisfiable if there is no interpretation for which it is false.

v) None of the above.

i) Default reasoning is another type of:
   1) Monotonic reasoning.
   2) Bitonic reasoning.
   3) Closed world assumption.

j) In an Unsupervised learning:
   1) Specific output values are given.
   2) Specific output values are not given.
   3) No specific input are given.
   4) Both inputs and outputs are given.
   5) Neither inputs nor outputs are given.

UNIT-I

Q.2  a) How to define a problem as state space search? Discuss it with the help of an example. 8
   b) What are the problems encountered in hill climbing? How will you overcome them? 7

Q.3  Discuss the following search techniques with the help of an example. Also discuss the benefits and shortcoming of each.
   a) Breadth First Search.
   b) Depth First Search

UNIT-II

Q.4  Discuss:
   a) Resolution
   b) Unification
   c) Skolemization

Q.5  Write the algorithm for minimax search technique? What are the limitations of it? How does α & β pruning help in improving the performance of minimax? Explain using suitable example.

UNIT-III

Q.6  Explain the basic architecture of an expert system. Also give its applicability in different areas with suitable examples.

Q.7  How will you use/perform the following in LISP?
   a) Lambda Expressions.
   b) MAPCAR
   c) REMOVE-IF
   d) COUNT-IF
   e) Recursion

UNIT-IV

Q.8  What are the advantages and disadvantages of neural networks? What are the activation functions used by neural networks?

Q.9  Discuss the following:
   a) Bayesian networks.
   b) Fuzzy logic.
   c) Hopfield network.
**End Semester Examination, May 2014**

**MCA - Fourth Semester**

**ADVANCED JAVA TECHNOLOGIES (MCA-403)**

Time: 3 hrs  
Max Marks: 75  
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. **Q.1 is compulsory.** All questions carry equal marks.

**Q.1**  Multiple choice questions:

a) Which method is used to get the contents of a text field objects?
   i) getText()  
   ii) getString()  
   iii) getContent()  
   iv) netLabelText()

b) Which of these methods is the entry point of Applet?
   i) point()  
   ii) init()  
   iii) main()  
   iv) start()

c) JPanel is a descendent of container.
   i) True  
   ii) False

d) Which class is called the parent class of all classes?
   i) Object  
   ii) String  
   iii) Java  
   iv) Applet

e) Object of string class is immutable in Java.
   i) True  
   ii) False

f) Which of these is not a primitive data type?
   i) Int  
   ii) Float  
   iii) String  
   iv) Void

g) Which access specifier is used to define package level access?
   i) Private  
   ii) Protected  
   iii) Default  
   iv) Public

h) In function overloading the signature of the function should be identical.
   i) True  
   ii) False

i) RMI stands for remote mail identification.
   i) True  
   ii) False

j) An abstract class must have atleast one abstract method.
   i) True  
   ii) False

**UNIT-I**

**Q.2**  What do you mean by class and objects? Explain with suitable example. How objects and classes are created in Java?  
15

**Q.3**  
a) Write a short note on JVM.  
8  
b) Differentiate between string in Java and string in C.  
7

**UNIT-II**

**Q.4**  Write short notes on the following:

a) URL  
b) Thrown keyword  
c) Synchronized keyword  
5x3

**Q.5**  What is a thread? Discuss the benefits and drawback of using threads. Give examples.  
15

P. T. O.
**UNIT-III**

Q.6  
   a) What are applets? What are the different methods that need to be defined in an applet?  
   b) Explain the importance of using a buffered reader class using a suitable example.  

Q.7  Write short notes on the following:  
   a) Flow layout  
   b) Grid layout  
   c) File reader  

**5x3**

**UNIT-IV**

Q.8  
   a) Explain the concept of servlet in detail. Give an example.  
   b) Write a short note on Java Bean.  

Q.9  
   a) Write a short note on JDBC.  
   b) Write a program to execute an insert query. (Use any database and table)
End Semester Examination, May 2014  
MCA - Fourth Semester  
ADVANCED DATABASES (MCA-404)

Time: 3 hrs  
Max Marks: 75  
No. of pages: 1

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1: Choose the right answer:
   a) The ______ clause imposes a condition on the GROUP BY clause.
      i) Having   ii) Where   iii) Both a and b
   b) The ______ function converts a value of a date data type into char value.
      i) To_CHAR   ii) To_NUMBER   iii) MONTHS_BETWEEN   iv) None of the above
   c) The ______ command is used to change data values in a table.
      i) Update   ii) Alter   iii) None of the above

State True/False:
   d) The LOWER function returns char, with all letters in lowercase.
   e) Objects that are created by a user are owned and controlled by that user.
   f) The focus of normalization is to attempt to reduce redundant table data to the very minimum.
   g) To display messages, SERVEROUTPUT should be set to ON.

Fill in the blanks:
   h) ______ data type can be used to store arrays of binary data in ASCII format.
   i) ______ key represent relationship between tables.
   j) A sequence can be dropped by using ________ statement. 1½x10

UNIT-I

Q.2: Write short note on the following:
   a) Aggregation   b) Specialization   c) Generalization  5x3

Q.3: Discuss the responsibilities of DBA.
   a) What is the difference between SQL and SQL*PLUS?
   b) What is the difference between DBMS an RDBMS?  5x3

UNIT-II

Q.4: a) What are views? Discuss the syntax of creating views with example.
   b) What are sequences? Give the syntax of creating sequences with example. 7½x2

Q.5: Discuss the format, purpose of the following SQL commands. Give example of each.
   a) COUNT   b) INITCAP   c) Alter
   d) Group-by clause   e) Distinct clause  3x5

UNIT-III

Q.6: a) Write short note on triggers. 7
   b) Write PL-SQL code to find factorial of n numbers. 8

Q.7: a) Define exceptions. What are its advantages?
   b) Discuss various types of exception. 6

UNIT-IV

Q.8: Define alerts. Discuss three styles of alerts. Mention the steps for creating an alert in developer 2000. 15

Q.9: Write short notes on the following:
   a) Lovs   b) List items 7½x2
End Semester Examination, May 2014  
MCA - Fourth Semester  
NETWORK SECURITY AND CRYPTOGRAPHY (MCA-405A)  

Time: 3 hrs  
Max Marks:  
No. of pages: 2  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 Fill in the blanks:  
a) PKI stands for ____________.
b) Example of Hash function is ____________.
c) Authorization is of two type __________ and __________.
d) Example of substitution cipher is ____________.
e) One example of network spoofing is ____________.
f) Full form of VIRUS is ____________.
g) Lollipop model is also known as ____________.
h) First password based system was ____________.
i) DES is used in ____________ key encryption.
j) Eavesdropping is an example of ____________.  

UNIT-I  

Q.2 Explain briefly, what the following Internet security threats are:  
a) Packet sniffing  
b) IP spoofing  
c) DOS  

UNIT-II  

Q.3 List and describe three preventive measures that can be taken to minimize the risk of computer virus infection, other than the use of anti-virus software.  

Q.4 What do you understand by certificate based authentication? Explain the steps involved with suitable example.  

UNIT-III  

Q.5 a) Differentiate between active and passive attacks.  
b) Differentiate between authentication and authorization.  
c) Differentiate between rule based and role based authorization.  

UNIT-IV  

Q.6 Differentiate the following:  
a) Keyless and keyed transposition ciphers.  
b) Stream and block ciphers.  
c) Private and public key.  

Q.7 What do you understand by symmetric key signature. How is it different from public key signatures? Give at least one example of each.  

Q.8 A post office sells only 39-cent and 15-cent stamps. Find the number of stamps a customer needs to buy to put $ 2.70 postage on a package. Find a few solutions.  

Q.9 a) Find the result of the following using Fermat’s little theorem:  
i) \(456^{17} \mod 17\)  
ii) \(5^{15} \mod 13\)  
b) Find the value of \(x\) for the following sets of congruence using Chinese remainder theorem.  
i) \(x = 4 \mod 5\)  
\(x = 10 \mod 11\)
Q.1 a) ________ is used to preserve data in control during poor backs.
   i) Class.  
   ii) View state.
   iii) Session.
   iv) Buttons.

b) CLS is ________.
   i) An execution engine for all .net application.
   ii) Similar to JVM as in Java.
   iii) Defines standard rules for defining .net compliant language.
   iv) a compiler.

c) Which of the following is not a .net compatible language?
   i) C#.
   ii) C++.
   iii) Vb.net.
   iv) Java.

d) ________ namespace has to be included to create database program.
   i) System.xml.
   ii) System.configuration.
   iii) System.data.odbc.
   iv) None of the above.

e) ________ class is used to execute a SQL Query.
   i) OleDbCommand.
   ii) Dataset.
   iii) SQL.
   iv) OleDbConnection.

f) int keyword refers to which .NET type.
   i) System.Int8.
   ii) System.Int16.
   iii) System.Int32.
   iv) System.Int64.

g) Which symbol or keyboard is used to inherit a class?
   i) :
   ii) ::
   iii) extends.
   iv) inherits.

h) All methods in an interface are by default:
   i) Private.
   ii) Protected.
   iii) Public.
   iv) Internal.

i) Sealed class cannot be a bone class:
   i) True.
   ii) False.

j) asms file extension is used for:
   i) Web page.
   ii) Web control.
   iii) Windows form.
   iv) Web service.

**UNIT-I**

Q.2 a) Explain the features and building blocks of .Net Framework.  

B) Write a short note on .Net name space.  

Q.3 a) What is inheritance? How is it implemented in C#?
    b) Write a program to describe sealed class and sealed method.

**UNIT-II**

Q.4 a) Explain the concept of Garbage collection in .Net.
    b) What are the access modifiers available in C#? Give examples.
Q.5 Write short notes on the following:
   a) Catch block.                      b) Finally.  5x3
   c) Rethrow.

UNIT-III

Q.6 a) What is SQL command? How is it used to execute update queries? Give examples.  8
     b) Explain dataset object. What is the difference between dataset and data reader?  7

Q.7 a) Explain all the components of a connection string.  7
     b) Write short notes on:
        i) XML.                          ii) COM.  8

UNIT-IV

Q.8 a) Describe view state in detail with example.  6
     b) What is a session object? How do we use a session object to store and retrieve data? Give example.  9

Q.9 Write short notes on the following:
   a) Cookies.                        b) Global.asax.  5x3
   c) Web service.
End Semester Examination, May 2014
MCA - Fifth Semester
ANALYSIS AND DESIGN OF ALGORITHM (MCA-502)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1 a) ________ may consist of various numbers of loops, nested or in sequence.
   i) Decidable problem
   ii) Algorithms
   iii) Phrase structure problem
   iv) Pushdown problem
b) The operation of processing each element in the list is called:
   i) Sorting
   ii) Merging
   iii) Inserting
   iv) Traversal
c) The running time of quick sort depends heavily on the selections of
   i) No. of inputs
   ii) Arrangement of elements in array
   iii) Size of elements
   iv) Pivot element
d) The depth of complete binary tree is given by:
   i) \( n \log_2 n \)
   ii) \( n \log_3 n + 1 \)
   iii) \( \log_2 n \)
   iv) \( \log_2 n + 1 \)
e) Kunkal algorithm is a
   i) Asymptotically tight
   ii) Same as Bigoh
   iii) Asymptotically loose
   iv) None of these
f) ________ and ________ are the methods to get minimum spanning tree.
g) Hamiltonian path visits each ________ exactly once.
h) Graph with no cycle is called ________.
i) A problem is ________ if it is NP and for which no polynomial time deterministic solution is known.
j) Name any three NP complete problem.

1½ x 10

UNIT-I

Q.2 a) Explain the concept of disjoint set union with its memory representation. Also write the algorithms for both FIND and UNION operations.
   10
b) Write the recursive and non recursive procedure for \( x^y \).
   5

Q.3 Sort the given list using quick sort method. Also explain its step by step execution:
   48 57 19 24 85 39 59. Also write the algorithms for the same.
   15

UNIT-II

Q.4 What is the difference between Greedy method and dynamic programming? Which one is better and why? Solve the travelling salesman problem for the given graph using dynamic programming approach.

P. T. O.
Q.5  a) Design the ordered set of 0/1 knapsack with the following values. \( n = 4 \quad m = 6 \)

<table>
<thead>
<tr>
<th>Profit</th>
<th>1</th>
<th>2</th>
<th>5</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

b) Also write the algorithm for 0/1 knapsack using dynamic programming approach.

5

UNIT-III

Q.6  a) What are the rules to create reduced cost matrix from a given cost matrix under travelling salesmen problem using branch and bound approach?  

b) What are various methods for branch and bound?

7

Q.7  Find the LC and FIFO solution for travelling salesmen problem with the given cost matrix:

\[
\begin{bmatrix}
\infty & 7 & 3 & 12 & 8 \\
3 & \infty & 6 & 14 & 9 \\
5 & 8 & \infty & 6 & 18 \\
9 & 3 & 5 & \infty & 11 \\
18 & 14 & 9 & 8 & \infty \\
\end{bmatrix}
\]

15

UNIT-IV

Q.8  State and prove Cook's theorem.

15

Q.9  Differentiate between:

i) Deterministic and non-deterministic algorithm

ii) NP hard and NP complete

iii) P and NP class

5x3
End Semester Examination, May 2014  
MCA - Fifth Semester  
DATA MINING AND DATA WAREHOUSING (MCA-503)  

Time: 3 hrs  
Max Marks: 75  
No. of pages: 1  

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit.  
Q.1 is compulsory. All questions carry equal marks.  

Q.1 Fill in the blanks:  
a) Star schema has the ______ table in the middle and ______ tables arranged around it.  
b) Data warehouse provides ______ data.  
c) In MOLAP, data is stored in a ______.  
d) Discovery of rare events in a data set is called ______.  
e) Clustering is also known as ______.  
f) Apriori property of frequent item sets is ______.  
g) Binning is a technique to remove ______ from data.  
h) ______ and ______ are techniques to transform the data.  
i) K-medoids is an algorithm to ______ the data.  
j) In dice operation in a data cube we generate ______ of data.  

UNIT-I  

Q.2 How is data warehouse modeling different from that of database? Differentiate between ER modeling and dimensional modeling.  

Q.3 Explain the different models of OLAP. Also compare the models giving their advantages and disadvantages.  

UNIT-II  

Q.4 What is data transformation? Explain some of the techniques used for data transformation.  

Q.5 Explain the following terms:  
a) Noise in data  
b) Data inconsistency  
c) Smoothing  

UNIT-III  

Q.6 What is a cluster? Explain the typical requirements of clustering technique in data mining.  

Q.7 Give a short example to show that items in a strong association rule may actually be negatively correlated.  

UNIT-IV  

Q.8 Give some of the application areas of data mining.  

Q.9 What is text mining? Explain its application areas. Also give the challenges in mining text data.
End Semester Examination, May 2014
MCA - Fifth Semester
SOFTWARE TESTING AND QUALITY ASSURANCE (MCA-504b)

Time: 3 hrs
Max Marks: 75
No. of pages: 2

Note: Attempt FIVE questions in all; taking at least ONE question from each Unit. Q.1 is compulsory. All questions carry equal marks.

Q.1  a) Verification plan includes:
       i) unit test plan
       ii) integration test plan
       iii) function design plan
       iv) code test plan

b) Symptoms associated with a failure that alerts the user to the occurrence of a failure is called:
       i) Failure
       ii) Bug
       iii) Error
       iv) incident

c) In the V model of testing, the scope of verification from top to bottom _______.
       i) increases
       ii) decreases
       iii) remains same
       iv) increase or decreases

d) A decision table has
       i) Four portions
       ii) Six portions
       iii) Eight portions
       iv) Two portions

e) Cyclometric complexity is denoted by:
       i) \( v(G) = e-n+2p \)
       ii) \( v(G) = \) number of regions of graph
       iii) both i) and ii)
       iv) \( v(G) = 2n-e+p \)

f) Black box testing is a
       i) Static testing
       ii) Dynamic testing
       iii) Regression testing
       iv) Manual testing

g) A System test should not be performed by:
       i) Programmer
       ii) Tester
       iii) Designer
       iv) All of the above

h) Web based software has a much _______ update rate.
       i) Faster
       ii) Slower
       iii) Normal
       iv) None

i) Quality control is basically related to the software.
       i) Process
       ii) Product
       iii) Project
       iv) None of the above

j) A key concept of quality control is that all work products:
       i) are delivered one time and under budget
       ii) have complete documentation
       iii) have measurable specifications for process outputs
       iv) are thoroughly tested before delivery to customer

1½x10

UNIT-I

Q.2  Explain the verification and validation phases in V-model with suitable diagram. 15

Q.3  a) Differentiate between static testing and dynamic testing. 5
     b) Discuss the steps required for performing debugging process with the help of a block diagram. 10

P. T. O.
UNIT-II

Q.4  a) Write down the test cases for login screen having two fields 'LOGIN NAME' and 'PASSWORD' of a website DEMO in test case format.  
     b) What is the need of White-Box testing? Discuss its significance.  

Q.5 Discuss the significance of automated testing. Give brief introduction of any automated testing tool available that you have studied.  

UNIT-III

Q.6 Write a note on the following with suitable example:  
     a) Compatibility testing  
     b) Interface testing  
     c) Usability testing  

Q.7 a) Differentiate between product quality and process quality.  
     b) What is software quality? Discuss the various factors that affect the software quality.  

UNIT-IV

Q.8 Discuss the framework of STQM (Software total quality management).  

Q.9 Discuss the relationship between quality factors and quality criteria in McCall’s software quality model.