

End Semester Examination, May 2018
B. Sc. (Hotel Management) - First Semester
**INTRODUCTION TO PRINCIPLES OF MANAGEMENT AND
ORGANISATIONAL BEHAVIOUR**
(FMS-HM-105)

Time: 3 hrs

Max Marks: **50**

No. of pages: **1**

Note: Attempt any **SIX** questions in all. **Part-A is compulsory**. Attempt any **FIVE** questions from **Part-B**. Marks are indicated against each question.

PART-A

- Q.1 Attempt (**any ten**) questions. All questions carry equal marks.
- a) Define customer value and satisfaction.
 - b) Describe organization behavior.
 - c) Briefly describe what functions a manager perform in an organization.
 - d) What are the big five personality traits?
 - e) Explain hospitality retailing.
 - f) Define hospitality product and its characteristics with an example.
 - g) Explain the term: SWOT analysis.
 - h) CSR stands for _____.
 - i) Define planning and its importance for an organization.
 - j) Differentiate between directing and controlling.
 - k) Mention any four reasons for conflict.
 - l) Give some guidelines for effective communication. **2x10**

PART-B

- Q.2 What is meant by 'Mission' and 'Objectives' of an organization. **6**
- Q.3 What is personality? How do we typically measure it? What factors determine personality? **6**
- Q.4 Motivation is a very important management function. What is meant by motivation? How does the management ensure the achievement of motivation levels in its employees? **6**
- Q.5 What is management? What are management functions? Discuss its importance in organizations. **6**
- Q.6 Communication is absolutely necessary for an organization to exist and function smoothly. Explain importance of communication with suitable examples. **6**
- Q.7 How do you manage a conflict? Mention any four reasons for conflict. **6**

End Semester Examination, May 2018
B.Sc. (Hotel Management) - First Semester
FOUNDATION COURSE IN FOOD PRODUCTION (FMS-HM-101)

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all. **Part-A is compulsory**. Attempt any **FIVE** questions from **Part-B**. Marks are indicated against each question.

PART-A

Q.1 Answer the following questions:

a) Write the English term for the following:

- | | |
|--------------|----------------|
| i) Bechamel. | ii) Espagnole. |
| iii) Poulet. | iv) Poisson. |

b) Define the following terms:

- | | |
|--------------|---------------|
| i) Mirepoix. | ii) Julienne. |
|--------------|---------------|

c) Define stock. List different stocks used in kitchen.

d) Name any four thickening agents and the name of the dishes in which they are used.

e) Differentiate between "Puree soup" and "Cream soup".

f) What are condiments and spices?

g) Differentiate between "Poaching" and "Simmering".

h) Define pot roasting.

i) Name 3 each of stem and bulbous root vegetables.

j) Write 4 different roles and use of egg in cooking.

2×10

PART-B

Q.2 Describe the classification of cooking methods with the help of a diagram. **6**

Q.3 Explain the effect of heat on different food materials. **6**

Q.4 Explain the aims and objectives of cooking the food. **6**

Q.5 Classify the nutrients in micro and macro. Explain the role and importance of each nutrient in our diet. **6**

Q.6 Describe the constituent of an egg with the help of a diagram. **6**

Q.7 List down the personal qualities of a good Chef. **6**

Q.8 List the different cuts of vegetables with their dimensions and uses. **6**

End Semester Examination, May 2018
B. Sc. (Hotel Management) - Second Semester
HUMAN RESOURCE MANAGEMENT (FMS-HM-205)

Time: 3 hrs

Max Marks: **50**

No. of pages: 1

Note: Attempt any **SIX** questions in all. **Part-A is compulsory**. Attempt any **FIVE** questions from **Part-B**. Marks are indicated against each question.

PART-A

Q.1 Write short notes on:

- a) Job analysis
- b) Employment interview
- c) Reference checks
- d) Internal recruitment
- e) Job specification
- f) Employee counseling
- g) On-the-job training
- h) Motivation of employees
- i) Employee safety
- j) Job rotation

2x10

PART-B

Q.2 Define human resource and its importance. Explain the functions of human resource department of a hotel.

6

Q.3 What are the internal and external sources of recruitment?

6

Q.4 Explain the importance of performance appraisal.

6

Q.5 What are the components of employee welfare?

6

Q.6 Define training. Discuss the importance of training and a proper trainer in hotel industry.

6

Q.7 What are the objectives of the human resource management?

6

End Semester Examination, May 2018
B.Sc. (Hotel Management) – Third Semester
FOOD PRODUCTION OPERATIONS AND MANAGEMENT THEORY
(FMS-HM-301)

Time: 3 hrs

Max Marks: **50**

No. of pages: 1

Note: Attempt **SIX** questions in all; **PART A is compulsory**. Attempt any **FIVE** questions from **PART B**. Marks are indicated against each question.

PART-A

Q.1 Explain the following terms:

- a) Gosht.
- b) Portion.
- c) Salamander.
- d) Pauchphoran.
- e) Dum.
- f) Zafraan.
- g) Stone grinder.
- h) Standard Recipe.
- i) Broiling.
- j) Chettinad masala.

2x10

PART-B

Q.2 What are the different major equipments used for bulk cooking? Explain any two.

6

Q.3 Write short notes on:

- a) Goan Cuisine.
- b) Tamil Cuisine.

3x2

Q.4 What is menu planning? Explain the basic principles while planning a menu. **6**

Q.5 Write briefly about the Rajasthani cuisine. Describe the famous dishes produced in Rajasthani cuisine. **6**

Q.6 Who is a CDP? Explain the duties and responsibilities of a CDP. **6**

Q.7 Explain in detail the different thickening agents used in different cuisines all over the world. **6**

End Semester Examination, May 2018
B.Sc. (Hotel Management) – Third Semester
FOOD AND BEVERAGE SERVICE OPERATIONS AND MANAGEMENT
(FMS-HM-302)

Time: 3 hrs

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all; **PART-A** is **compulsory**. Attempt any **FIVE** questions from **PART-B**. Marks are indicated against each question.

PART-A

Q.1 a) **Give one word for the following:**

- i) Almond flavored syrup.
- ii) The scale which determines that 100 degree proof-57.1% alcohol.
- iii) Fermented liquid destined to be distilled.
- iv) Amount of alcohol lost during maturation.
- v) Italian wine made from grape husk.

2x5

b) Name any five liqueurs with country of origin.

10

PART-B

Q.2 Classify alcoholic beverage by giving examples for each.

6

Q.3 What is methode champenoise? Explain briefly.

6

Q.4 With the help of a flow chart explain the production of Rum.

6

Q.5 What factors to be considered while staffing in a restaurant?

6

Q.6 What are cocktails? Explain different types of cocktails by giving two examples of each type.

6

Q.7 Explain the production of Fortified Wine.

6

End Semester Examination, May 2018

B.Sc. (Hotel Management) – Third Semester

ACCOMODATION OPERATIONS AND MANAGEMENT-I (FMS-HM-304)

Time: 3 hrs

Max Marks: 50

No. of pages: 1

Note: Attempt **SIX** questions in all; **PART-A** is **compulsory**. Attempt any **FIVE** questions from **PART-B**. Marks are indicated against each question.

PART-A

Q.1 a) **Define the following terms (any ten):**

- i) Linen chute
- ii) Monogramming
- iii) Moribana
- iv) Thimbles
- v) Steam press
- vi) Antichlors
- vii) OPL
- viii) Snag list
- ix) Ergonomics
- x) Cut downs
- xi) Seamstress
- xii) Par level

1x10

b) **Fill in the blanks:**

- i) _____ refers to the study of people's efficiency in relation to their working environment.
- ii) _____ stain is removed by turpentine oil.
- iii) _____ service is offered to guest for to and fro transfer of guest laundry.
- iv) _____ is done for folding sheets or blankets at the corners during bed-making.
- v) _____ equipment uses steam and heat to press the clothes.
- vi) _____ system in which linen from all floors are collected and sorted in one central area.
- vii) _____ is a process of physical verification of linen or by counting of the stock.
- viii) _____ another term for foam used in flower arrangement.
- ix) _____ is a type of oriental arrangement in a basket.
- x) _____ mechanics used in flower arrangement also called pin holders.

1x10

PART-B

- Q.2 What are the steps of a laundry cycle? **6**
- Q.3 Explain various activities carried down in a sewing room. **6**
- Q.4 What are the basic guidelines for handling uniform issuing process?
6
- Q.5 Explain the major laundry equipments in detail. **6**
- Q.6 List 15 different flowers and foliage used in flower arrangements. **6**

Q.7 Draw the sample formats of hotel laundry list, linen exchange register and requisition register.

6

End Semester Examination, May 2018
B.Sc. (Hotel Management) - Fourth Semester
FOOD PRODUCTION MANAGEMENT (FMS-HM-401)

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **FIVE** questions in all. **Part-A is compulsory**. Attempt **ANY FOUR** questions from **Part-B**. Marks are indicated against each question.

PART-A

Q.1 Explain the following terms:

- a) Excelsior.
- b) Florentine.
- c) Forestiere.
- d) Forcemeat.
- e) Larder.
- f) Panada.
- g) Galantine.
- h) Ballotine.
- i) Pate.
- j) Terrine.

2×10

PART-B

- Q.2 **What are sandwiches? How many parts of sandwiches are there? Explain different types of dressings.** **7½**
- Q.3 **What are forcemeats? Explain different types of forcemeats.** **7½**
- Q.4 **What is Larder Control? Explain.** **7½**
- Q.5 **What are garnishes? Explain in detail with few examples.** **7½**
- Q.6 **Write in detail about Chinese cuisine.** **7½**

End Semester Examination, May 2018
B.Sc. (Hotel Management) - Fourth Semester
FOOD AND BEVERAGE SERVICE MANAGEMENT (FMS-HM-402)

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all. **Part-A is compulsory**. Attempt any **FIVE** questions from **Part-B**. Marks are indicated against each question.

PART-A

- Q.1 a) Define the following terms:
- i) Banquet.
 - ii) Function Prospectus.
 - iii) Lead Time.
 - iv) OHP.
 - v) Menu Planning. **2×5**
- b) Draw the format for the following:
- i) Gueridon Service.
 - ii) Standard Portion Size. **5×2**

PART-B

- Q.2 **Elaborate the process of Food and Beverage control cycle and checks to be implemented at all stages. 6**
- Q.3 **What are the different types of buffet? Discuss display and decoration of a buffet. 6**
- Q.4 **Explain how will you will deal with the following situations:**
- a) **Guest in a hurry.**
 - b) **Guest had too many alcoholic drinks. 3×2**
- Q.5 **List down the opening and closing duties of a Bar. 6**
- Q.6 **Define "Buffet service". Prepare a checklist of Mise-en-place for buffet service. 6**
- Q.7 **Define food cost. What are the different elements of cost? 6**

End Semester Examination, May. 2018
B. Sc. (Hotel Management) – Fourth Semester
FRONT OFFICE MANAGEMENT THEORY (FMS-HM-403)

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all; **PART-A is compulsory**. Attempt any **FIVE** questions from **PART-B**. Marks are indicated against each question.

PART-A

Q.1 Attempt (**any five**) in detail:

- a) Guest feedback cards.
- b) Express check-in.
- c) Retention policy upon cancellation.
- d) Meal plans.
- e) Different types of tariffs.
- f) Bouncing a guest.
- g) Up-selling.

4×5

PART-B

Q.2 Explain the step-by-step procedure of guest check-out through credit card. **6**

Q.3 Explain the role of Front Office Manager in evaluating, forecasting and planning to improve the business of a hotel. **6**

Q.4 What are the various segments of market that provide hotels with clientele? Explain in brief about each. **6**

Q.5 With examples explain the 4P's of marketing. **6**

Q.6 Give the formula for yield management. A hotel with 100 rooms each of rack rate INR 6,000/-, manages to sell 78 rooms with ARR of INR 4600/-. Calculate the yield percentage. **6**

Q.7 Explain the role of social media in the promotion and marketing of the hotel. **6**

End Semester Examination, May. 2018

B. Sc. (Hotel Management) – Fourth Semester **STRATEGIC MANAGEMENT (FMS-HM-405)**

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all; **PART-A is compulsory**. Attempt any **FIVE** questions from **PART-B**. Marks are indicated against each question.

PART-A

Q.1 Define (**any five**) of the following:

- a) Policy framework.
- b) Resource allocation.
- c) Diversification.
- d) Merger.
- e) Turnaround strategy.
- f) Forward integration.

4×5

PART-B

Q.2 Explain in detail the SWOT analysis with suitable example.

6

Q.3 What is Business Environment scanning? Explain the PESTLE model with examples.
6

Q.4 Define the basic components of strategic management process.

6

Q.5 Elaborate the Mckinsey 7S framework.

6

Q.6 List and explain the possible ways in which two separate business entities work as a single brand, giving suitable examples?

6

Q.7 What is the accepted strategic plan that a company uses to launch a new product in a market?

6

End Semester Examination, May 2018
B.Sc. (Hotel Management) - Fourth Semester
FACILITY PLANNING AND MANAGEMENT (FMS-HM-406)

Time: 3 hrs.

Max Marks: **50**

No. of pages: **1**

Note: Attempt **SIX** questions in all. **Part-A is compulsory**. Attempt **ANY FIVE** questions from **Part-B**. Marks are indicated against each question.

PART-A

Q.1 Answer the following questions:

- a) Name important tools and equipment's used in kitchen stewarding.
- b) Name different types of kitchen layouts.
- c) Describe dummy waiter.
- d) What is the full form of HVAC?
- e) Define preventive maintenance and AMC.
- f) What is 3R concept in energy conservation?
- g) What is a travelator?
- h) Define "Rain water harvesting".
- i) Give 4 points as basis for equipment selection.
- j) Define work flow used for layout planning.

2×10

1x20

PART-B

- Q.2 Describe green building and explain the energy conservation in detail. **6**
- Q.3 Classify different types of fire and list the different class of extinguishers used for each. type of fire. **6**
- Q.4 Write the duties and responsibilities of head of the maintenance department. **6**
- Q.5 Explain the waste management system adopted in 5 star hotels. **6**
- Q.6 Describe the in house laundry setup and name the equipment's in good 5 star Hotels. **6**
- Q.7 Describe the factors that affect kitchen design and it's planning. **6**
- Q.8 Define the facility planning and explain systematic layout planning pattern. **6**

1/2x10

End Semester Examination, May 2018
B. Tech. – First Semester
PROFESSIONAL COMMUNICATION-I (HM-104)

Time: 2 hrs.

Max Marks: **50**

No. of pages: 2

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

Q.1 Short answer type questions (Word limit 30-40 words) (**any ten**):

- a) What is skimming? Give one example to support your answer.
- b) What is the difference between Hearing and listening?
- c) What are the three parts of paragraph writing?
- d) What is the meaning of the term “decoding”?
- e) What are the four parameters of communication? How much does writing constitute?
- f) What do you mean by “chronemics”?
- g) How can listening be effectively done?
- h) What is SQ3R theory? What does Q denote?
- i) What are the factors affecting effective reading?
- j) What are the three steps involved in reading?
- k) Name two factors which make you a bad reader.
- l) What is a formal communication? Give one example. **1×10**

PART-A

Q.2 Fill in the correct form of Tenses

- a) Jai _____ (did) his homework. (Past perfect)
- b) I _____ (work) the entire night. (Present Perfect Continuous)
- c) He _____ (sing) tonight. (Future Continuous)
- d) Harry and Ishan _____ (play) twice a week. (Future Continuous)
- e) He always _____ (teach) me good things. (Simple present)
- f) I _____ (drink) only soft drinks. (Simple present)
- g) It's _____ (rain) since morning. (Present continuous)
- h) She _____ (learn) Chinese in class 10. (Past Perfect)
- i) You _____ (do) nothing for the past 20 minutes. (Present Perfect Continuous)
- j) She always _____ (speak) the truth. (Simple present) **1×10**

Q.3 Write a letter to the Municipal Corporation of Delhi regarding your concern for unhygienic surroundings in your area. **10**

- Q.4 a) Given below is the opening line of a story. Continue the story and give it an ending! (word limit 100-120 words) **5**
“Sitting idle at home on a very sunny day.....”
- b) Bring out the difference in the words given below by using them in sentences:
- i) Carat-Carrot.
 - ii) Stationary-Stationery.
 - iii) Idol-Idle-Ideal.
 - iv) Aloud- Allowed.
 - v) Principal-Principle. **1×5**

PART-B

Q.5 Explain the difference between skimming and scanning. Give examples where these two techniques are used. **10**

Q.6 Read the following passage carefully and answer the questions that follow:
Schools expect textbooks to be a valuable source of information for students. My research suggests, however, that textbooks that address the place of Native Americans within the history of the United States distort history to suit a particular cultural value system. In some textbooks, for example, settlers are pictured as more humane, complex, skillful, and wise than Native Americans. In essence, textbooks stereotype and depreciate the numerous Native American cultures while reinforcing the attitude that the European conquest of the New World denotes the superiority of European cultures. Although textbooks evaluate Native American architecture, political systems, and homemaking, I contend that they do it from an ethnocentric, European perspective without recognizing that other perspectives are possible.

One argument against my contention asserts that, by nature, textbooks are culturally biased and that I am simply underestimating children's ability to see through these biases. Some researchers even claim that by the time students are in high school, they know they cannot take textbooks literally. Yet substantial evidence exists to the contrary. Two researchers, for example, have conducted studies that suggest that children's attitudes about particular cultures are strongly influenced by the textbooks used in schools. Given this, an ongoing, careful review of how school textbooks depict Native Americans is certainly warranted.

a) How are textbooks a valuable source of information?

b) How is children's attitude towards a particular culture influenced by textbooks?

c) Are textbooks culturally biased? If yes, How?

d) Suggest a suitable title of the passage given above.

e) What is the meaning of the following words? Distort, essence. **2×5**

Q.7 Paraphrase the same passage and write it in 100 Words. **10**

End Semester Examination, May 2018
B. Tech. – Second Semester
PROFESSIONAL COMMUNICATION-II (HM-204)

Time: 2 hrs.

Max Marks: **50**

No. of pages: 6

Note: *The paper consists of **FIFTY** multiple questions; each question has **FOUR** options with **ONE** correct answer. Select the correct answer. Attempt all questions. All questions are of **ONE** mark each. There is no negative marking. Mention the correct option for each question in the blank answer key given herein below. (Answer sheets with empty answer keys despite the correct options being ticked, will not be evaluated)*

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.

Read each sentence to find out whether there is any grammatical error in it. If there is no error answer is D (Q.1 to Q.5)

Q.1 Solve as per the direction given above:

- a) We discussed about the problem so thoroughly
- b) On the eve of the examination
- c) That I found it very easy to work it out
- d) No error

Q.2 Solve as per the direction given above:

- a) An Indian ship
- b) Laden with merchandise
- c) Got drowned in the Pacific Ocean
- d) No error

Q.3 Solve as per the direction given above:

- a) I could not put up in a hotel
- b) Because the boarding and lodging charges
- c) Were exorbitant
- d) No error

Q.4 Solve as per the direction given above:

- a) The Indian radio
- b) Which was previously controlled by the British rulers
- c) Is free now from the narrow vested interests.
- d) No error

Q.5 Solve as per the direction given above:

- a) If I had known
- b) This yesterday
- c) I will have helped him.
- d) No error

Q.6 Which one of the following is not listed in the SMART acronym for assessing a set of goals?

- a) Specific b) Rewarded
- c) Measurable d) Achievable

Q.7 A clearly stated Goal looks at:

- a) What you want
- b) When you want to get it

c) How will you get it

d) All of the above

Q.8 What is the best reason for setting a goal?

a) You are bored

b) You want to improve a skill or a talent

c) Your parents Want to

d) Without any reason

Q.9 When writing an email message, paragraphs should

a) Be long b) Be short

c) Be indented d) Be invisible

Q.10 The best way to make several points in an email is:

a) Include all points in the first paragraph

b) Include all points in the last paragraph

c) Use bullet points

d) None of the above

Q.11 I should only forward email when:

a) I feel it's important

b) I know the other person should have the information

c) Information important for all readers

d) Its ok to forward all mails

Q.12 If you know the recipient is often in a hurry, the best way to send a supporting document is:

- a) Put it directly in the body of the message
- b) Attach it as a separate document
- c) Type slowly
- d) Have it delivered by carrier pigeon.

Q.13 What is a benefit of practicing good personal hygiene?

- a) Improved self-esteem
- b) Better health
- c) Others will have a better perception of you
- d) All of the above

Q.14 During the presentation, the attention span of the audience is maximum during

- a) Opening b) Closing
- c) Both d) None of above

Q.15 Your friend from college joins your company at a senior level to you. How should you interact with her in the office?

- a) Talk informally and don't take her orders seriously
- b) Break your friendly ties with her completely and maintain only a professional relationship
- c) Treat her like a senior in the office and as a friend outside
- d) None of the above

Q.16 Self-awareness is

- a) Knowing yourself
- b) Ability to think about your own thought process
- c) Both a) and b)
- d) None of the above.

Q.17 Self-awareness affects our

- a) Behaviour b) Attitude
- c) Beliefs and Values
- d) All of the above

Q.18 The following is not a learning style

- a) Auditory b) Visual
- c) Reading d) Kinesthetic

Q.19 Grooming includes:

- a) Neat and clean clothes all the time
- b) Hair neatly brushed and combed
- c) Usage of mild deodorant/perfume
- d) All of the above

Q.20 Kinesthetic learning style involves:

- a) Learning through listening
- b) Learning through seeing
- c) Learning though practical hands on experience
- d) None of the above

Q.21 The best way to apply for a job is to submit a résumé that is:

- a) Specifically written for that particular job
- b) Suitable for any job
- c) Self-recommending
- d) Full of personal information

Q.22 The group discussion evaluates the candidate's ability to:

- a) Control others
- b) Argue with others c) Lead others
- d) Confer with others on a given subject

Q.23 The cover letter is:

- a) A summary of your qualifications and experiences
- b) A foreword
- c) A statement of your job objective
- d) A description of your core strengths and suitability for the job

Q.24 The heading of a resume includes

- a) Personal information such as name and contact details
- b) Names of references
- c) Title of the most recent job
- d) Career objective

Q.25 A resume can be as many pages as a job-seeker needs to include all his or her pertinent job, skills, and education information.

- a) True b) False

- c) Not sure
- d) Don't write any resume

Q.26 To be able to give a good presentation, a full rehearsal is:

- a) Necessary b) Audience based
- c) Optional d) Useless

Q.27 Just reading out the slides during the presentation is:

- a) Helpful b) Not allowed
- c) Allowed d) Dull

Q.28 To select the content of your presentation, you should know:

- a) Your purpose
- b) The audience's needs
- c) The time limit
- d) All of the above

Q.29 Which of these should you avoid while giving your presentation?

- a) Repeating yourself and going off topic
- b) Using occasional pauses
- c) Talking slowly
- d) Making frequent eye contact with your audience

Q.30 Why should you keep text to a minimum on slides?

- a) So the focus is on you as the speaker

- b) So the pictures are easier to see
- c) To help make your presentation longer
- d) To make sure the audience can read everything you have to tell them

Q.31 Extrinsic personality includes

- a) Style of Dressing
- b) Communication Style
- c) All of the above
- d) None of the above

Q.32 Communication Discipline is

- a) No aggressive behaviour
- b) Keeping in mind the cultural difference
- c) Awareness of your surroundings
- d) All of the above

Q.33 Auditory learners prefer to

- a) Work in quieter places
- b) Prefer to hear spoken information
- c) Like background information
- d) All of the above

Q.34 Knowledge of your learning style helps

- a) To learn faster
- b) Makes us inflexible
- c) Doesn't make any difference
- d) Complicates our learning

Q.35 Presentation Skills helps in improving our

- a) Communication Skills
- b) Team Work dynamics
- c) Leadership Qualities
- d) All of the above

Q.36 The following is not a communication style:

- a) Assertive b) Passive Aggressive
- c) Submissive d) Passive Assertive

Q.37 There are ----- vowel sounds in spoken English

- a) 25 b) 20
- c) 12 d) 18

Q.38 The following is not a vowel sound

- a) "th" b) "oo"
- c) "aw" d) "ae"

Q.39 Twenty one consonants make _____ consonant sounds in English language.

- a) 80 b) 21
- c) 24 d) 22

Q.40 Phonetics is

- a) Study of speech sounds as produced by human beings
- b) Another name for telephone etiquette

c) It is a foreign language which is a dialect of Hebrew

d) None of the above

Reading Comprehension:

China, in recent time, has converted a large number of rocks across the South China Sea into islands, where it has based missiles, armed personnel and military aircraft, using its military might.

The Obama Administration took virtually no action in response to Chinese belligerence against the Philippines — a longtime military ally. Worse still, the US recently acquiesced in the seizure of one of its unmanned underwater vehicles close to the Philippines. Chinese belligerence is paying off. President Duterte of the Philippines has quietly acquiesced to Beijing's territorial demands. ASEAN countries like Malaysia, Brunei, Thailand and Cambodia are following suit. Myanmar is being pressured by China, by permitting Chinese territory to be used by armed ethnic groups from Myanmar's bordering Shan and Kachin states.

It is clear that a belligerent China is no longer prepared to tolerate any challenges to its dominance and hegemony across Asia. Agni IV, currently operational, with a range of 4,000 km, can hit targets in southern China, while Agni V, with a range of 5,500-8000 km, can hit even at the farthest points in China. The submarine-launched Sagarika missile, currently operational, has a range of 750 km. Its variants — under development — can hit across China from the Bay of Bengal. China, in turn, has transferred the designs and knowhow of the Shaheen range of missiles to Pakistan. These missiles can hit targets across India. Moreover, Karachi and Gwadar will be used, not only to base the eight submarines China is supplying to Pakistan, but also serve as bases for Chinese nuclear and conventional submarines that are now venturing increasingly into the Indian Ocean. The range of missiles being developed by India clearly signals to China that it will find any effort to use Pakistan as a nuclear proxy against India very costly and perhaps unaffordable. Agni V is virtually invulnerable as it is mobile and housed in canisters.

New Delhi needs to be far more active in insisting that a comprehensive nuclear dialogue with China is essential for strategic stability across Asia. China is loathe to enter into such a dialogue as it evidently wishes to not formally accord recognition to India's nuclear weapons status, even as it peddles nuclear weapons and ballistic missile designs and materials to Pakistan, while helping Pakistan to develop both uranium and plutonium-based nuclear weapons. These transfers to Pakistan are in total disregard of China's responsibilities under the nuclear Non-Proliferation Treaty. India has been far too defensive and avoided exposing the Sino-Pakistan nuclear/missile nexus in important world capitals, notably Washington, London, Paris, Moscow and Tokyo. A far more determined effort on this score would be necessary once the Trump Administration assumes office and settles down to looking at the world.

Within Asia, Chinese hubris and arrogance would need far closer consultations and dialogue with countries like Japan, Vietnam and Indonesia. There appears to be a sentiment growing slowly in Tokyo that in the face of Chinese territorial and geopolitical ambitions, Japan should review its nuclear policies. The incoming Trump Administration has also indicated that allies like Japan need to do more to defend themselves, rather than depend excessively on the US. A nuclear-armed Japan can certainly play a key role in moderating Chinese behaviour and hubris. This is an issue that needs to be looked at carefully. All this has to be combined with a vigorous dialogue with China, which includes maintenance of peace and tranquility along our borders, expanding equitable trade and economic ties and promoting peace and stability across the entire Indo-Pacific Region.

(Adapted - "China frets and fumes" - Article by G Parthasarathy

Q.41 What changes has China made in South China sea in the recent past?

- a) China has increased its military exercises in South China Sea.
- b) China has objected to trespassing of US vessels In South China Sea.
- c) China has stationed missiles, military personnel and aircrafts in South China Sea
- d) No Change

Q.42 What was the response of Obama Government of USA to Chinese hostility towards Philippines?

- a) US sent unmanned water vessels near Philippines in the sea in its defence.
- b) US showed indifference towards Chinese hostility towards Philippines.
- c) US protested to China against its hostile attitude towards Philippines
- d) Obama government was quiet.

Q.43 How is China pressuring Myanmar for submission to its dominance?

- a) China has posted military troops on the border areas of Myanmar states of Shan and Kachin
- b) China has facilitated tribal rebels of Myanmar to operate against it

- c) China creates hindrances in South China sea routes for trade by Myanmar
- d) By capturing its people.

Q.44 The recent military developments made by India are acting as irritants for China, why?

- a) China cannot tolerate any challenge to its dominance across Asia
- b) China considers that India would use these against it or its ally Pakistan
- c) China is committed to Pakistan to defend it against any attack from India
- d) All of the above

Q.45 How other ASEAN Countries like Indonesia, Malaysia and Thailand reacted to Philippine's response?

- a) These countries raised their protest to Philippines against its action
- b) These countries consented and acted in accordance with China
- c) These countries also sought help and intervention of the US government
- d) No interference policy

Q.46 What is the purpose of China in acquiring territory of countries like Philippines, Myanmar, Thailand or Malaysia etc.?

- a) China wants to prove its dominance in the South Asia area
- b) China wants to coerce these counties to promote its trade with them
- c) China wants to conduct its military operations by using their territory
- d) China wants to take the gold from these countries.

Q.47 What does the word "belligerence" as used in the passage suggest?

- a) To act in a manner of dominance or supremacy
- b) To terrify or cause panic to someone
- c) A tendency of being antagonistic towards others
- d) None of the above

Q.48 What was the effect of China's hostility on Philippines?

- a) Philippines succumbed to China's pressure and accepted its territorial demands
- b) Philippines vehemently protested to China and took up the matter with US
- c) Philippines opposed China with the help of countries like Malaysia Thailand etc.
- d) Philippines rejected all Chinese visas

Q.49 How China and Pakistan are deploying their submarines in sea?

- a) Pakistan is allowing its seaports as bases for Chinese submarines for operations in Indian ocean
- b) China is transferring technical knowhow to Pakistan along with its submarines
- c) China has moved a fleet of sea war ships in the sea near Pakistan in defence
- d) None of the above

Q.50 How does the author consider China violating its responsibilities under nuclear non Proliferation Treaty?

- a) China has raised its army and positioned its nuclear missiles in the South China sea
- b) China has sent unmanned under-water vehicles in the sea to use them against counties like Philippines, Malaysia, Cambodia and Thailand
- c) China is aiding Pakistan to develop uranium and plutonium based nuclear weapons
- d) All of the above.

End Semester Examination, May 2018

B. Tech. – Third Semester CAREER SKILLS-I (HM-302)

Time: 2 hrs.

Max Marks: 50

No. of pages: 4

Note: All questions are compulsory. Each question has **FOUR** options with **ONE** correct answer. Select the correct answer. All questions are of **ONE** mark each. There is no **NEGATIVE** marking. Mention the correct option for each question in the blank answer key given herein below. Calculator is not permitted.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.

- Q.1 If South-East becomes North, North-East becomes west and so on. What will West become?
- a) North-East b) North-West
c) South-East d) South-West
- Q.2 One morning after sunrise Nivedita and Niharika were talking to each other face to face at Dalphin crossing. If Niharika's shadow was exactly to the right of Nivedita, in which direction Niharika was facing?
- a) North b) South
c) East
d) Data is inadequate
- Q.3 Debu walks towards East then towards North and turning 45° right walks for a while and lastly turns towards left. In which direction is he walking now?
- a) North b) East
c) South-East d) North-West
- Q.4 Deepak said to Nitin, "The boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak?

- a) Cousin b) Brother
- c) Son d) Brother-in-law

Q.5 In the AMS club, all the members participate either in the Tambola or the Fete. 420 participate in the Fete, 350 participate in the Tambola and 220 participate in both. How many members does the club have?

- a) 410 b) 550
- c) 440 d) 140

Directions for questions 6 to 10: A cube painted red on two adjacent faces and black on the faces opposite to the red faces and green on the remaining faces, is cut into 64 smaller cubes of equal size.

Q.6 How many cubes are there which have no face painted?

- a) 0 b) 4
- c) 8 d) 16

Q.7 How many cubes have only one face painted?

- a) 8 b) 4
- c) 24 d) 32

Q.8 How many cubes have less than three faces painted?

- a) 44 b) 24
- c) 48 d) 56

Q.9 How many cubes are there with three faces painted?

- a) 4 b) 8
- c) 16 d) 24

Q.10 How many cubes have one face green and one of the adjacent faces black or red?

- a) 8
- b) 16
- c) 24
- d) 28

Q.11 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative. __ aba __ ba _ ab

- a) abbba
- b) abbab
- c) baabb
- d) bbaba

Q.12 Veena who is the sister-in-law of Ashok is the daughter-in-law of Kalyani. Dheeraj is the father of Sudeep who is the only brother of Ashok. How Kalyani is related to Ashok?

- a) Mother-in-law
- b) Aunt
- c) Wife
- d) Mother

Q.13 Introducing a woman, Shashank said, "She is the mother of the only daughter of my son." How that woman is related to Shashank?

- a) Daughter
- b) Sister-in-law
- c) Wife
- d) Daughter-in-law

Q.14 K is 40 m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?

- a) East
- b) West
- c) North-East
- d) South

Q.15 Pointing to Gopi, Nalni Says, "I am the daughter of the only son of his grandfather." How Nalni is related to Gopi?

- a) Niece

- b) Daughter
- c) Sister
- d) Can't be determined

Directions for questions 16 to 21:

Study the following information and answer the questions: M, N, P, R, T, W, F and H are sitting around a circle facing at the centre. P is third to the left of M and second to the right of T. N is second to the right of P. R is second to the right of W who is second to the right of M. F is not an immediate neighbour of P.

Q.16 Who is to the immediate right of P?

- a) H
- b) F
- c) R
- d) Data is inadequate

Q.17 Who is to the immediate right of H?

- a) R
- b) F
- c) M
- d) N

Q.18 Who is to the immediate left of R?

- a) P
- b) H
- c) W
- d) T

Q.19 Who is third to the right of H?

- a) T
- b) W
- c) R
- d) F

Q.20 Who is second to the right of F?

- a) M
- b) R
- c) T
- d) Data inadequate

Q.21 In which of the following is the first person sitting in between the second and the third person?

- a) NHM b) PHN
- c) TRP d) TWF

Directions for questions 22 to 24:

On the basis of the information provided below, answer these questions:

Six people A, B, C, D, E and F are sitting on the ground in a hexagonal shape. All the sides of the hexagon so formed are of same length. A is not adjacent to B or C; D is not adjacent to C or E; B and C are adjacent; F is in the middle of D and C.

Q.22 Which of the following is not correct neighbourpair?

- a) A and F b) D and F
- c) B and E d) C and F

Q.23 Which of the following is in the right sequence?

- a) A, F, B b) F, A, E
- c) B, C, F d) D, A, B

Q.24 Who is placed opposite to E?

- a) B b) C
- c) D d) F

- Q.25 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.
- a _ cdaab _ cc _ daa _ bbb _ ccddd
- a) bdbda b) bddca
c) dbbca d) bbdac
- Q.26 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.
- ab _ aa _ bbb _ aaa _ bbba
- a) abba b) baab
c) aaab d) abab
- Q.27 K is 40 m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?
- a) East b) West
c) North East d) South
- Q.28 Pointing to Sarita in a photograph, Manjula said, "His brother's father is the only son of my grandfather." How is Sarita related to Manjula?
- a) Aunt b) Sister
c) Mother d) None of these
- Q.29 Sia introduced Raghav as the son of the only daughter of the father of her uncle. How is Raghav related to Sia?
- a) Brother b) Cousin
c) Nephew
d) Can't be determined
- Q.30 Which number is on the face opposite to 6?



- a) 1 b) 2
c) 3 d) 4

Q.31 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

ab _ _ _ b _ bbaa _

- a) abaab b) abbab
c) baaab d) babba

Q.32 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

bc _ b _ c _ b _ ccb

- a) cbc b b) bbc b
c) cbbc d) bc b c

Q.33 In alphabet series, some alphabets are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

_ aba _ cabc _ dcba _ bab _ a

- a) abdca b) bcadc
c) abcdd d) cbdaa

Q.34 If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?

- a) Brother b) Sister
c) Nephew
d) Cannot be determined

Q.35 B is the brother of A, S is the sister of B, E is the brother of D, D is the daughter of A, and F is the father of S. Then, the uncle of E is?

- a) A b) F
- c) B d) D

Directions for questions 36 to 39:

On the basis of the information provided below, answer these:

In a family of six, C is the sister of F, B is the brother of E's husband, D is the father of A and grandfather of F. There are two father's and three brothers in the family:-

Q.36 How is D related to B?

- a) Father b) Mother
- c) Brother d) Grandfather

Q.37 Who is C's mother?

- a) E b) B
- c) F d) D

Q.38 Which of the following are not siblings?

- a) A & B b) B & A, C & F
- c) C & F d) A & C

Q.39 If F is married to an outsider G, how is B related to G?

- a) Uncle b) Aunt
- c) Sister in law d) None of these

Q.40 Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

- a) None of these b) South

- c) East d) West

Q.41 One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. in which direction was he facing?

- a) East b) South
c) North d) West

Directions for questions (42-44):

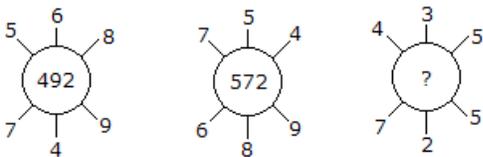
Which one will replace the question mark in the following figures -42- 44?

Q.42

A ₂	C ₄	E ₆
G ₃	I ₅	?
M ₅	O ₉	Q ₁₄

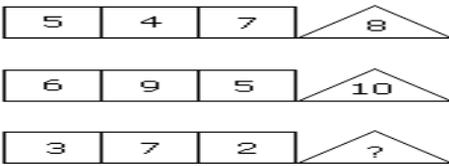
- a) L₁₀ b) K₁₅
c) I₁₅ d) K₈

Q.43



- a) 115 b) 130
c) 135 d) 140

Q.44



- a) 1 b) 4
c) 3 d) 6

Q.45 Pointing towards a girl, Abhisek says, "This girl is the daughter of only a child of my father." What is the relation of Abhisek's wife to that girl?

- a) Daughter d) Mother
c) Aunt d) Sister

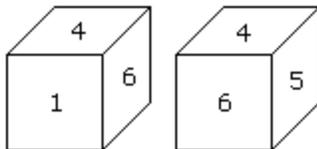
Q.46 If X is the brother of the son of Y's son, how is X related to Y?

- a) Son b) Brother
c) Father d) grandson

Q.47 All the faces of cubes are painted with red colour. The cube is cut into 64 equal small cubes. How many small cubes have only one face coloured?

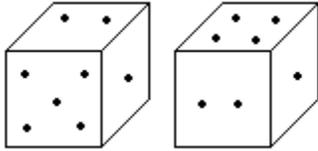
- a) 4 b) 8
c) 16 d) 24

Q.48 Two positions of a dice are shown below. When number '1' is on the top? What number will be at the bottom?



- a) 3 b) 5
c) 2 d) 6

Q.49 Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points?



- a) 3
- b) 1
- c) 2
- d) 4

Q.50 If B says that his mother is the only daughter of A's mother, how is A related to B?

- a) Son
- b) Father
- c) Brother
- d) Uncle

End Semester Examination, May 2018

B. Tech. – Fourth Semester CAREER SKILLS-II (HM-402)

Time: 2 hrs.

Max Marks: 50

No. of pages: 4

Note: The paper consists of **FIFTY** multiple questions; each question has **FOUR** options with **ONE** correct answer. Select the correct answer.

Attempt all questions. All questions are of **ONE** mark each. There is no negative marking.

Mention the correct option for each question in the blank answer key given herein below. (Answer sheets with empty answer keys despite the correct options being ticked, will not be evaluated)

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.

Q.1 Which of the following is a “No” in the group discussion?

- a) Dominate the discussion
- b) Grabbing attention
- c) Give others chance
- d) Both a) and b)

Q.2 What is self-awareness?

- a) The awareness of self
- b) The knowledge of our own strengths and weaknesses
- c) The awareness of one’s likes and dislikes
- d) All of the above

Q.3 The SWOT analysis of a person talks about the:

- a) Smartness, Weaknesses, Opportunities and Threats
- b) Strengths, Words, Orderliness, and Time management

- c) Strengths, Weaknesses, Opportunities and Threats
- d) Strong points, welfare, Opportunities and Time management

Q.4 How can self-awareness be achieved?

- a) Through introspection
- b) By asking our near and dear ones
- c) By performing the SWOT analysis
- d) All of the above

Q.5 The knowledge of self includes asking which of the following questions?

- a) What do I want to achieve in my life?
- b) What do I want out of my job/ career?
- c) Both the these
- d) None of these

Q.6 After the self-awareness exercise, you should have:

- a) A Confused mind
- b) A clear idea of your preferences and work goals
- c) An idea of how much money you should be making
- d) None of the above

Q.7 The decision making process involves which of the following steps?

- a) Comparing various options available to you
- b) Narrowing down your choices

c) Thinking what suits you best

d) All of the above

Q.8 The “Research” or the occupational awareness involves which of the following?

a) Exploring the occupation which interests you and matches your knowledge, skills and attitude

b) Finding out who all from your group of friends are having the same interests

c) What actions are required to achieve the goal

d) None of the above

Q.9 “Employability” is:

a) Getting a job

b) Having the right K, S, A’s to get and maintain a job

c) Being able to draw a respectable salary

d) None of the above

Q.10 The career planning process is an on-going process of:

a) Continuously fine tuning your work and learning plans to help you manage your professional life.

b) Getting employment

c) Maintain the employment by functioning successfully

d) None of the above

Q.11 “You never get a second chance to make a first impression.” It means creating an impression by:

- a) Dressing up well.
- b) Speaking well.
- c) With academic records.
- d) The right combination of attitude, conduct and delivery.

Q.12 “If you are early, you are on time. If you are on time, you are late”, it means:

- a) Reach the venue exactly on time
- b) Reach the venue 15 minutes before the start of GD
- c) Reach the venue 5 minutes before the start of GD
- d) It’s ok to be late at times.

Q.13 “Dress to impress” is important because:

- a) One needs to show the latest dress one has bought.
- b) Dress plays a part in how you’re first perceived.
- c) The evaluator thinks that you have a nice choice
- d) Dress up the way you feel most comfortable.

Q.14 Which of the following statements is not true with respect to the first impression?

- a) Body language forms the 55%of first impression
- b) Talking incessantly helps us to make a good first impression
- c) Verbal tone is a very important component of forming the first impression
- d) The extent to which the Verbal content matters in first impression is just 7%

Q.15 While drafting a resume, which of the following points need to be kept in mind?

- a) The resume should be short as the recruiters do not have time to go through a bulky one
- b) A good qualification from a good institute is the only thing that the recruiters are looking for
- c) The resume should be made using many font sizes
- d) A career objective should not be catchy

Q.16 When should the cover letter be submitted?

- a) When sending a job application by post
- b) When the company specifically asks for it
- c) When applying for the job online
- d) All of the above

Q.17 Cover letter should not include:

- a) Past professional background
- b) Suitability to the job
- c) Application purpose
- d) Family backgrounds

Q.18 Resume should not contain:

- a) Work Experience and Internships
- b) Projects and Extracurricular activities
- c) Strengths and Weaknesses
- d) Achievements

Q.19 Which of the following cannot be checked through a GD?

- a) Analytical skills
- b) Family Background

- c) Social skills
- d) Communication skills

Q.20 Why are Group Discussions time bound?

- a) So that the objective is achieved
- b) To check confidence of participants
- c) To ensure some people get left out
- d) All of the above

Q.21 A man walks 5 km toward north and then turns to the right. After walking 3 km he turns to the right and walks 5 km. Now in which direction is he from the starting place?

- a) East b) South
- c) North-East d) South-West

Q.22 Golu started from his house towards North. After covering a distance of 4 km. he turned towards right and covered a distance of 3 km. What is the shortest distance now from his house?

- a) 5 km. b) 2 km.
- c) 14 km. d) 16 km.

Q.23 In an examination, the highest marks are 200. Vijay gets 150 marks. What is the percent marks scored by Vijay?

- a) 25% b) 75%
- c) 50% d) 40%

Q.24 What is 30% of 80?

- a) 10 b) 15
- c) 30 d) 24

Q.25 What should replace "A" to make the number "3241A4" divisible by 3?

- a) 1 b) 5
- c) 3 d) 2

Q.26 Which of the following numbers is divisible by 4?

- a) 302 b) 534
- c) 340 d) 210

Q.27 What is the average of 10, 20 and 30?

- a) 10 b) 20
- c) 30 d) 40

Q.28 The average age of 4 students is 10 years. What is the total sum of their ages?

- a) 10 b) 20
- c) 30 d) 40

Q.29 What is the simple interest on ₹500 at 10% for one year?

- a) 80 b) 75
- c) 50 d) 100

Q.30 Simple Interest on certain sum at the rate of 20% per annum for 3 years is ₹600. What is the sum?

- a) ₹1500 b) ₹1000
- c) ₹2000 d) ₹1200

Q.31 The sum of ages of 3 children born at the intervals of 3 years each is 27 years. What is the age of the youngest child?

- a) 4 years b) 8 years
- c) 6 years d) None of these

Q.32 A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is?

- a) 14 years b) 18 years
- c) 20 years d) 22 years

Q.33 If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?

- a) Brother b) Sister
- c) Nephew
- d) Can't be determined

Q.34 A cyclist covers a distance of 15 kms in 2 hours. Calculate his speed.

- a) 7km/hr b) 7.5km/hr
- c) 8 km/hr d) None of these

Q.35 A boy walks at a speed of 4 kmph. How much time does he take to walk a distance of 20 km?

- a) 6 hours b) 7 hours
- c) 5 hours d) 8 hours

Q.36 A coin is tossed 3 times. Find out the number of possible outcomes.

- a) 8 b) 2
- c) 1 d) 5

Q.37 In how many ways can the letters of the word 'PLAY' be arranged?

- a) 16 b) 24

- c) 12 d) 120

Q.38 What is the probability of getting a sum 9 from two throws of a dice?

- a) $\frac{1}{8}$ b) $\frac{1}{6}$
c) $\frac{1}{9}$ d) None of these

Q.39 In a box, there are 8 red, 7 blue. One ball is picked up randomly. What is the probability that it is a red ball?

- a) $\frac{7}{15}$ b) $\frac{8}{15}$
c) $\frac{5}{18}$ d) $\frac{8}{7}$

Q.40 What should come next in the series - 4, 9, 14, 19, 14,

- a) 39 b) 34
c) 25 d) 29

Q.41 The sides of a rectangle are in the ratio 4:3 and its area is 972 sq.m find the perimeter of rectangle.

- a) 120 m b) 122 m
c) 124 m d) 126 m

Q.42 The side of a square is 4cm. What is the area?

- a) 16 cm^2 b) 20 cm^2
c) 24 cm^2 d) None of these

Q.43 Find the area of a triangle with Base 15cm and Height 10cm.

- a) 90 cm^2
- b) 75 cm^2
- c) 150 cm^2
- d) None of these

Q.44 A and B can do a work in 12 days. A alone can do it in 8 days. How long will B take to do it alone?

- a) 16 days
- b) 12 days
- c) 24 days
- d) None of these

Q.45 The selling price of an article is ₹500. The cost price is ₹400. What is the gain/loss %?

- a) 20%
- b) 25%
- c) 30%
- d) None of these

Q.46 If one-third of a number is 15. What is the number?

- a) 30
- b) 25
- c) 60
- d) 45

Q.47 A and B get ₹1500 in the ratio 2:3. What is the share of A?

- a) 600
- b) 900
- c) 500
- d) 1000

Q.48 What is the LCM of 10, 15 and 20?

- a) 120 b) 30
- c) 60 d) 40

Q.49 The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

- a) 9000 b) 9400
- c) 9600 d) 9800

Q.50 The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:30. If one card is selected, what is the probability of getting a face card (Jack, Queen and King) from a pack of 52 cards?

- a) $12/50$ b) $3/52$
- c) $3/26$ d) $3/13$

End Semester Examination, May 2018

B. Tech. – Fourth Semester

QUANTITATIVE APTITUDE AND PERSONALITY DEVELOPMENT-I (HM-403A)

Time: 2hrs
50

Max Marks:

No. of pages: 5

Note: The paper consists of **FIFTY** multiple choice questions; Each question has **FOUR** options with **ONE** correct answer. Attempt all questions. All questions are of **ONE** mark each. There is no negative marking. Mention the correct options for each question in the answer key provided below. (Answers marked outside the answer key will not be evaluated.)

51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
71.	72.	73.	74.	75.	76.	77.	78.	79.	80.
81.	82.	83.	84.	85.	86.	87.	88.	89.	90.
91.	92.	93.	94.	95.	96.	97.	98.	99.	100.

Direction for question 1 to 5:

Read the following passage carefully and answer the following questions:

Punctually at midday he opened his bag and spread out his professional equipment, which consisted of a dozen cowries shells, a square piece of cloth with obscure mystic charts on it, a note book, and a bundle of Palmyra writing. His forehead was resplendent with sacred ash and vermilion, and his eyes sparkled with a sharp abnormal gleam which was really an outcome of a continual searching look for customers, but which his simple clients took to be a prophetic light and felt comforted. The power of his eyes was considerably enhanced by their position placed as they were between the painted forehead and the dark whiskers which streamed down his cheeks: even a half-wit's eyes would sparkle in such a setting. To crown the effect, he wound a saffron-colored turban around his head. This color scheme never failed. People were attracted to him as bees are attracted to cosmos or dahlia stalks.

Q.1 From the description of this passage one can make out the person to be a

- a) Snake charmer b) footpath vendor
c) Astrologer d) priest

Q.2 The eyes of the person described sparkled because

- a) He was sitting under midday sun
b) He was always looking for possible clients

- c) His forehead was bright with ash and vermilion
d) He was full of joy

Q.3 The person opened his bag

- a) To search for something he needed
b) To indicate the start of his work
c) To take out things for display
d) Both (B) and (C)

Q.4 The tone of the description is

- a) Sad b) neutral
c) Ironic d) Sympathetic

Q.5 What does the word 'whisker' mean in context of the passage?

- a) A faint noise.
b) A very small distance or space.
c) A long projecting hair or bristle growing from the face or snout of many mammals.
d) None of the above.

Direction for question 6 to 10:

The sentences given in each question, when properly sequenced, form a coherent paragraph. Each sentence is labeled with a

letter. Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

Q.6 (i) For many scientists oceans are the cradle of life.

A. But all over the world chemical products and nuclear waste continue to be dumped into them.

B. Coral reefs, which are known to be the most beautiful places of the submarine world are fast disappearing.

C. The result is that many species of fish die because of this pollution.

D. Of course man is the root cause behind these problems.

(vi) Man has long since ruined the places he visits - continents and oceans alike.

- a) ACBD b) BACD
c) ABDC d) BCAD

Q.7 (i) Am I one of the people who are worried that Bill Clinton's second term might be destroyed by the constitutional crisis?

A. On the other hands, ordinary citizens have put the campaign behind them.

B. In other words, what worries me is that Bill Clinton could exhibit a version of what George Bush used to refer to as Big

C. That is he might have so much campaign momentum that he may not be able to stop campaigning.

D. Well, it's true that I have been wondering whether a President could be impeached for refusing to stop talking about the bridge we need to build to the 21st century.

(vi) They now prefer to watch their favorite soaps and ads on TV rather than senators.

- a) DBCA b) ABDC
c) BACD d) CBDA

Q.8 (i) So how big is the potential market?

A. But they end up spending thousands more each year on hardware overhaul and software upgradation.

B. Analysts say the new machines will appeal primarily to corporate users.

C. An individual buyer can pick up a desktop computer for less than \$2,000 in America.

D. For them, the NCs best-drawing card is its promise of much lower maintenance costs.

(vi) NCs, which automatically load the latest versions of whatever software they need could put an end to all that.

- a) BCAD b) DABC
c) BDCA d) DCAB

Q.9 (i) Historically, stained glass was almost entirely reserved for ecclesiastical spaces.

A. By all counts, he has accomplished that mission with unmistakable style.

B. "It is my mission to bring it kicking and screaming out of that milieu," says Clarke.

C. The first was the jewel-like windows he designed for a Cistercian Church in Switzerland.

D. Two recent projects show his genius in the separate worlds of the sacred and the mundane.

(vi) The second was a spectacular, huge skylight in a shopping complex in Brazil.

- a) CBAD
- b) BADC
- c) ABDC
- d) DBAC

Q.10 A. It begins with an ordinary fever and a moderate cough.

B. India could be under attack from a class of germs that cause what are called a typical pneumonia.

C. Slowly a sore throat progresses to bronchitis and then pneumonia and respiratory complications.

D. It appears like the ordinary flu but baffled doctors find that the usual drugs don't work

- a) ABCD
- b) BDAC
- c) ADCB
- d) BCDA

Direction for question 11 to 15:

Determine the meaning of the expression in bold. Choose the best answer.

Q.11 After going to the zoo, the mall, and the movies, Cassie was sick of bending over backwards to entertain her nieces.

- a) Cassie was doing very little to entertain her nieces.
- b) Cassie was making small efforts to entertain her nieces.
- c) Cassie was trying very hard to entertain her nieces.
- d) Cassie was not trying at all to entertain her nieces.

Q.12 Bobby would have been playing ball until the cows came home if it hadn't been for Suzie dragging him home for dinner.

- a) Bobby was just about to stop playing ball.
- b) Bobby didn't even want to play ball to begin with.
- c) Bobby prefers nature to athletics
- d) Bobby would have continued playing ball for a long time.

Q.13 Eric wanted to fix his cousin's computer, but he was already having problems setting up his Aunt's Wi-Fi network and he didn't want to open a whole new can of worms.

- a) Eric was sick of spending his time helping his family
- b) Eric wanted to go fishing instead of working on computers.
- c) Eric was having difficulties untangling the computer wires
- d) Eric was not ready to begin working on a complicated new problem.

Q.14 Even though Candace already had a new job, she submitted her two-week notice and conducted herself in a professional way at her old job because she didn't want to burn bridges.

- a) Candace didn't want to ruin her positive relationship with her old employer.
- b) Candace wasn't ready to start her new job.
- c) Candace was really going to miss her old job.
- d) Candace was waiting until her last day to rub it in everyone's face that she was leaving.

Q.15 World renowned country western super group The Mountain Boys can sell out an arena at the drop of a hat.

- a) The Mountain Boys may be able to sell out an arena, but it will take a long time.
- b) The Mountain Boys can sell out an arena very quickly.
- c) The Mountain Boys are always willing to perform at charity events.
- d) The Mountain Boys enforce a dress code at all of their shows.

- Q.21 How much interest can a person get on Rs. 8200 at 17.5% p.a. simple interest for a period of two years and six months?
- a) Rs. 3770
 - b) Rs. 2850.50
 - c) Rs. 3587.50
 - d) Rs. 3750

Direction for question 16 to 20:

One Word Substitution:

Q.16 A name adopted by an author in his writings

- a) Nickname
- b) Pseudonym
- c) Nomenclature
- d) Title

Q.17 A paper written by hand

- a) Handicraft
- b) Manuscript
- c) Handiwork
- d) Thesis

Q.18 A disease of mind causing an uncontrollable desire to steal

- a) Schizophrenia
- b) Claustrophobia
- c) Kleptomania
- d) Megalomania

Q.19 One who knows everything

- a) Literate
- b) Scholar
- c) Omnipotent
- d) Omniscient

Q.20 Occurring or continuing after one's death

- a) Posthumous
- b) Pedantic
- c) Rhetorical
- d) Stride

Q.22 If a sum of money at compound interest amounts to thrice itself in 3 years, then in how many years will it be 9 times itself?

- a) 12 years
- b) 6 years
- c) 9 years
- d) 15 years

Q.23 On what sum will the difference between the simple and compound interests for 3 years at 3 per cent per annum amounts to Rs. 27.27?

- a) Rs. 5000
- b) Rs. 10000
- c) Rs. 8000
- d) Rs. 9000

Q.24 A and B together can do a piece of work in 8 days. If A alone can do the same work in 12 days, then B alone can do the same work in?

- a) 20 days
- b) 24 days
- c) 15 days
- d) 22 days

Q.25 A is thrice as efficient as B and is, therefore, able to finish a piece of work 10 days earlier than B. In how many days A and B will finish it together?

- a) 3 days
- b) 5 days
- c) 2 days
- d) 10 days

Q.26 A does half as much work as B in three - fourth of the time if together they take 18 days to complete a work. How much time shall B take to do it?

- a) 32 days
- b) 30 days
- c) 28 days
- d) 25 days

- a) 20% b) 22% c) 24% d) 52%

- Q.41 In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 90 questions and secures 140 marks, the number of questions he attempts correctly, is:
a) 35 b) 40 c) 42 d) 46
- Q.42 The ratio of number of boys and girls in a class is 3: 2. In the 1st semester exam 20% of boys and 25% of girls get more than or equal to 90% marks. What percentage of students gets less than 90% marks?
a) 56% b) 70% c) 78% d) 80%
- Q.43 A man spends 10% of his income in house rent, 20% of the rest on his children's education, 25% of the rest in miscellaneous causes. If he now possesses Rs. 1944 then his income is?
a) 3600 b) 6000
c) 7000 d) None of these
- Q.44 A sum of Rs.312 was divided among 100 boys and girls in such a way that the boy gets Rs.3.60 and each girl Rs. 2.40. The number of girls is?
a) 30 b) 40 c) 45 d) 50
- Q.45 Salaries of Louie and Reuben are in the ratio 2:3. If the salary of each is

increased by Rs. 4000, the new ratio becomes 40:57. What is Reuben's salary?

- a) 38000 b) 50000
c) 36700 d) 46800

- Q.46 If a real estate agent received a commission of 6 percent of the selling price of a certain house, what was the selling price of the house?
i) The selling price minus the real estate agent's commission was \$84,600.
ii) The selling price was 250 percent of the original purchase price of \$36,000.
a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
d) EACH statement ALONE is sufficient.
- Q.47 If $Z = 52$ and $ACT = 48$, then BAT will be equal to
a) 46 b) 44 c) 40 d) 52
- Q.48 In a certain code $GUIDE$ is written as 49132 and $BEAM$ is written as 8257. How is $IMAGE$ written in that code?
a) 17538 b) 17542
c) 17530 d) 17587
- Q.49 The average of five results is 46 and that of the first four is 45. The fifth result is?
a) 49 b) 45 c) 50 d) 52
- Q.50 The average runs scored by a batsman in 20 matches is 40. In the next 10 matches the batsman scored an average of 13 runs. Find his average in all the 30 matches?
a) 33 b) 35 c) 31 d) 40

End Semester Examination, May 2018

B. Tech. – Fifth Semester

INDUSTRIAL MANAGEMENT (HM-501)

Time: 3 hrs.

Max Marks: **100**

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

Q.1 Answer (**any four**) questions:

- a) Discuss the nature of management.
- b) What are the problems of plant layout?
- c) What are the objectives of method study?
- d) Draw and explain a store ledger.
- e) Discuss the importance of industrial relations.
- f) Discuss the importance of quality control.

5x4

PART-A

Q.2 Define controlling functions of management. Discuss its process with the help of a diagram. **20**

Q.3 Define 'plant layout'. Discuss the types of plant layouts with the help of suitable diagrams. **20**

Q.4 Discuss various types of associated charts with method study. **20**

PART-B

Q.5 a) What are the functions and duties of the purchase department?
10

b) Discuss the importance of store management in detail. **10**

Q.6 Discuss workers participation in management in detail. **20**

Q.7 Define 'inspection'. Discuss the types of inspections in detail.
20

End Semester Examination, May 2018

B. Tech. – Fifth / Sixth Semester

INDUSTRIAL MANAGEMENT (HM-501)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

Q.1 Answer (**any four**) of the following:

- a) Discuss the importance of directing function of management.
- b) Draw and explain product layout.
- c) Draw a flow diagram.
- d) Discuss the need for store management.
- e) What are the objectives of good industrial relations?
- f) Discuss the importance of inspection.

5×4

PART-A

Q.2 Define management. Discuss the scope of management with suitable examples. **20**

Q.3 Discuss the steps in finding a plant location with the help of suitable examples. **20**

Q.4 Define method study. Discuss the steps involved in method study with the help of a block diagram. **20**

PART-B

Q.5 Discuss ABC technique of inventory management in detail. **20**

Q.6 a) Discuss the scope of employee welfare in detail. **10**
b) Discuss the importance of workers participation in management. **10**

Q.7 a) Discuss the concept of total quality management. **10**
b) Discuss the importance of quality control. **10**

- a) 2
- c) 0

- b) 5
- d) 1

- a) 1
- c) 20

- b) 14
- d) 21

Q.22 The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

- a) 4
- c) 10

- b) 8
- d) None of these

Q.29 If the Cost price of an article is Rs 400 and the seller makes a profit of 20%, what is the selling price?

- a) 420
- c) 480

- b) 440
- d) 500

Q.23 What is the probability of getting a sum 9 from two throws of a dice?

- a) 1/6
- c) 1/9

- b) 1/8
- d) 1/12

Q.30 A can do a work in 15 days and B in 30 days. If they work on it together, in how many days will they complete the work?

- a) 8 days
- c) 12 days

- b) 15 days
- d) 10 days

Q.24 Three unbiased coins are tossed. What is the probability of getting at most two heads?

- a) 3/4
- c) 3/8

- b) 1/4
- d) 7/8

Q.31 Which of the following is not the enemy of time management?

- a) Overreaching
- b) Reverse Delegation
- c) Procrastination
- d) Highly organized meetings

Q.25 Look at this series: 7, 10, 13, 16, 19, 22... What number should come next?

- a) 26
- c) 27

- b) 25
- d) 30

Q.32 Scheduling is a term related to

- a) Problem Solving
- b) Time Management
- c) Delegation
- d) Stress Management

Q.26 If the population of a town is decreased by 20% and then increased by 20%, the net effect on the population of the town is:

- a) Decrease of 99%
- b) No change
- c) Decrease of 4%
- d) Increase of 4%

Q.33 Spending time on Social Networking is

- a) Urgent/ Important
- b) Urgent/ Not Important
- c) Not Urgent/ Not Important
- d) Not Urgent/ Important

Q.27 How many times the two hands of a clock meet in a day?

- a) 22
- c) 44

- b) 11
- d) 55

Q.34 The Simplex Process of problem solving was developed by:

- a) Daniel Goleman
- b) Min Basadur
- c) Joseph Luft
- d) Harrington Inghe

Q.28 What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

Q.35 If I am trying to minimize obstacles then I am

- a) Managing time
- b) Decision Making

c) Problem Solving d) None of these

Q.36 The most important element of Emotional Intelligence is:

- a) Self-Awareness
- b) Self-Regulation
- c) Empathy
- d) Social Skills

Q.37 “You never get a second chance to make a first impression.” It means:

- a) Create the impression by dressing up well.
- b) Create an impression by speaking well.
- c) Create an impression by showing your academic records.
- d) Create a lasting impression by the right combination of attitude, conduct and delivery.

Q.38 “If you are early, you are on time. If you are on time, you are late”, it means:

- a) Reach the venue exactly on time
- b) Reach the venue 15 -30 minutes before the start of the interview
- c) Reach the venue 5 minutes before the start of the interview
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Q.39 “Dress to impress” is important because:

- a) One needs to show the latest dress one has bought.
- b) Dress plays a part in how you’re first perceived.
- c) Dress can make the evaluator think that you have nice choice of clothes
- d) Dress up the way you feel most comfortable.

Q.40 Which of the following statements is not true with respect to the first impression?

- a) Body language forms the 55%of first impression
- b) Correct pronunciation of name helps us to make a good first impression

c) Verbal tone is a very important component of forming the first impression

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Q.41 While drafting a resume, which of the following points need to be kept in mind?

- a) The resume should be short as the recruiters do not have time to go through a bulky one
- b) The resume should be made using many font sizes
- c) A good qualification from a good institute is the only thing that the recruiters are looking for
- d) A career objective should be very lengthy and generic.

Q.42 When should the cover letter be submitted?

- a) When sending a job application by post
- b) When the company specifically asks for it

c) When applying for the job online

d) All of the above

Q.43 Cover letter should not include:

- a) Past professional background
- b) Suitability to the job
- c) Application purpose
- d) Family backgrounds

- Q.44 Resume should not contain:
- Work Experience & Internships
 - Projects and Extracurricular activities
 - Strengths & Weaknesses
 - Achievements
- Q.45 Which of the following cannot be checked through a GD?
- Analytical skills
 - Family Background
 - Social skills
 - Communication skills
- Q.46 Why are Group Discussions time bound?
- So that the desired objective is achieved
 - To check confidence of participants
 - To ensure some people get left out
 - All of the above
- Q.47 Which of the skills is gauged through Group Discussion?
- Technical skills
 - Managerial skills
 - Writing skills
 - None of these
- Q.48 What should you not do in an interview?
- Maintain eye contact with all panelists
 - Sit smartly
 - Smile incessantly
 - Dress neatly
- Q.49 Answer to the question “What are your long term goals”?
- A high standard of living
 - I want your job
 - To move up and succeed in a company like yours
 - None of the above
- Q.50 What will you do when interview ends with “do you have any questions for us”?
- Leave the opportunity
 - Ask something obvious
 - Ask the panelist’s salary
 - Enquire about your training as a fresher

End Semester Examination, May 2018

B. Tech. — Fifth / Sixth Semester

INDUSTRIAL MANAGEMENT AND ENTREPRENEURSHIP (HM-504)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

Q.1 Answer the following questions:

- a) What are the essential skills of manager?
- b) State the factors that influence the plant location.
- c) Explain the necessity of worker's participation in management.
- d) Explain E-debate.
- e) Define the role of NSIC.

4×5

PART-A

Q.2 List out the various levels of management and explain the functions of management. **20**

Q.3 Compare plant layout and process layout. **20**

Q.4 Explain the concept of EOQ and derive its expression. **20**

PART-B

Q.5 What do you understand by industrial relations? Explain its function. **20**

Q.6 What is the role of NABARD towards entrepreneurship development? **20**

- Q.7
- i) Describe any two skills of entrepreneur. **10**
 - ii) Explain any one entrepreneur success story. **10**

End Semester Examination, May 2018
B. Tech. – Fifth Semester
INDUSTRIAL MANAGEMENT AND ENTREPRENEURSHIP
(HM-504A)

Time: 3 hrs.

Max Marks: **100**

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

Q.1 Answer the following:

- a) What is the importance of planning?
- b) What is Product Layout? Explain with a diagram.
- c) What is workers' Participation in Management?
- d) Define the role of SIDBI in supporting entrepreneurs.

5x4

PART-A

Q.2 Define Management. Discuss the process of controlling with the help of a diagram.
20

Q.3 Define Plant Layout. Discuss the types of layout with the help of a diagram.
20

Q.4 Discuss the ABC technique of Inventory Control in detail.

20

PART-B

Q.5 Explain Industrial Relations. Explain their importance and the objectives.
20

Q.6 What is Employee Welfare? Discuss the scope of Employee Welfare in detail.
20

Q.7 "Entrepreneurship is a viable career option for young engineers". Do you agree with this statement? Justify your answer with reasons.
20

- a) 150 degree b) 105 degree
c) 155 degree d) none of
these

- Q.9 How many times the hands of clock are in straight line in a day?
- a) 22 times b) 24 times
c) 44 times d) 48 times

- Q.10 A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
- a) 3.6 km/hr b) 7.2 km/hr
c) 8.4 km/hr d) 10 km/hr

- Q.11 The least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder, is?
- a) 1677 b) 1683
c) 2523 d) 3363

- Q.12 Product of two co-prime numbers is 117. Their L.C.M should be?
- a) 1
b) 117
c) Equal to their H.C.F
d) Cannot be calculated

- Q.13 Three number are in the ratio of 3: 4: 5 and their L.C.M. is 2400. Their H.C.F. is?
- a) 70 b) 80
c) 120 d) 200

- Q.14 The largest 4 digit number exactly divisible by 88 is?
- a) 9944 b) 9768
c) 9988 d) 8888

- Q.15 What is the unit digit in $\{(6374)^{1793} \times (625)^{317} \times (341^{491})\}$?

- a) 0 b) 2
c) 3 d) 5

- Q.16 On dividing a number by 56, we get 29 as remainder. On dividing the same number by 8, what will be the remainder?

- a) 4 b) 5
c) 6 d) 7

- Q.17 What will be remainder when $(67^{67} + 67)$ is divided by 68?

- a) 1 b) 63
c) 66 d) 67

- Q.18 In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 46, what is the dividend?

- a) 4236 b) 4306
c) 4336 d) 5336

- Q.19 If the number 42573^* is exactly divisible by 72, then the minimum value of * is:

- a) 4 b) 5
c) 6 d) 7

- Q.20 The sum of the two numbers is 12 and their product is 35. What is the sum of the reciprocals of these numbers?

- a) $12/35$ b) $1/35$
c) $35/8$ d) $7/32$

- Q.21 How many factors of 1400 are odd integers?

c) Problem Solving d) None of these

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- c) Empathy
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 - To ensure some people get left out
- d) All of the above
- Q.47 Which of the skills is gauged through Group Discussion?
- Technical skills
 - Managerial skills
 - Writing skills
 - None of the above
- Q.48 What should you not do in an interview?
- Maintain eye contact with all panelists
 - Sit smartly
 - Smile incessantly
 - Dress neatly
- Q.49 Answer to the question “What are your long term goals”?
- A high standard of living
 - To move up and succeed in a company like yours
 - I want your job
 - None of the above
- Q.50 What will you do when interview ends with “do you have any questions for us”?
- Leave the opportunity
 - Ask something obvious
 - Ask the panelist’s salary
 - Enquire about your training as a fresher

c) 8 km/hr
inadequate

d) Data

a) 70
c) 120

b) 80
d) 200

Q.8 What is the angle between the two hands of clock at 4:50 am?

a) 150 degree b) 105 degree
c) 155 degree d) none of these

Q.9 How many times the hands of clock are in straight line in a day?

a) 22 times b) 24 times
c) 44 times d) 48 times

Q.10 A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

a) 3.6 km/hr b) 7.2 km/hr
c) 8.4 km/hr d) 10 km/hr

Q.11 The least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder, is?

a) 1677 b) 1683
c) 2523 d) 3363

Q.12 Product of two co-prime numbers is 117. Their L.C.M should be?

a) 1
b) 117
c) Equal to their H.C.F
d) Cannot be calculated

Q.13 Three number are in the ratio of 3: 4: 5 and their L.C.M. is 2400. Their H.C.F. is?

Q.14 The largest 4 digit number exactly divisible by 88 is?

a) 9944 b) 9768
c) 9988 d) 8888

Q.15 What is the unit digit in $\{(6374)^{1793} \times (625)^{317} \times (341^{491})\}$?

a) 0 b) 2
c) 3 d) 5

Q.16 On dividing a number by 56, we get 29 as remainder. On dividing the same number by 8, what will be the remainder?

a) 4 b) 5
c) 6 d) 7

Q.17 What will be remainder when $(67^{67} + 67)$ is divided by 68?

a) 1 b) 63
c) 66 d) 67

Q.18 In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 46, what is the dividend?

a) 4236 b) 4306
c) 4336 d) 5336

Q.19 If the number $42573*$ is exactly divisible by 72, then the minimum value of * is:

a) 4 b) 5
c) 6 d) 7

- Q.34 The Simplex Process of problem solving was developed by:
- Daniel Goleman
 - Min Basadur
 - Joseph Luft
 - Harrington Inghe
- Q.35 If I am trying to minimize obstacles then I am
- Managing time
 - Decision Making
 - Problem Solving
 - None of these
- Q.36 The most important element of Emotional Intelligence is:
- Self-Awareness
 - Self-Regulation
 - Empathy
 - Social Skills
- Q.37 “You never get a second chance to make a first impression.” It means:
- Create the impression by dressing up well.
 - Create an impression by speaking well.
 - Create an impression by showing your academic records.
 - Create a lasting impression by the right combination of attitude, conduct and delivery.
- Q.38 “If you are early, you are on time. If you are on time, you are late”, it means:
- Reach the venue exactly on time
 - Reach the venue 15 minutes before the start of GD
 - Reach the venue 5 minutes before the start of GD
 - It’s ok to be late at times.
- Q.39 “Dress to impress” is important because:
- One needs to show the latest dress one has bought.
 - Dress plays a part in how you’re first perceived.
 - Dress can make the evaluator think that you have nice choice of clothes.
 - Dress up the way you feel most comfortable.
- Q.40 Which of the following statements is not true with respect to the first impression?
- Body language forms the 55% of first impression
 - Correct pronunciation of name helps us to make a good first impression
 - Verbal tone is a very important component of forming the first impression
 - The extent to which the Verbal content matters in first impression is just 7%
- Q.41 While drafting a resume, which of the following points need to be kept in mind?
- The resume should be short as the recruiters do not have time to go through a bulky one
 - The resume should be made using many font sizes
 - A good qualification from a good institute is the only thing that the recruiters are looking for
 - A career objective should not be catchy

- Q.42 When should the cover letter be submitted?
- When sending a job application by post
 - When the company specifically asks for it
 - When applying for the job online
 - All of the above
- Q.43 Cover letter should not include
- Past professional background
 - Suitability to the job
 - Application purpose
 - Family backgrounds
- Q.44 Resume should not contain:
- Work Experience & Internships
 - Projects and Extracurricular activities
 - Strengths & Weaknesses
 - Achievements
- Q.45 Which of the following cannot be checked through a GD?
- Analytical skills
 - Family Background
 - Social skills
 - Communication skills
- Q.46 Why are Group Discussions time bound?
- So that the objective is achieved
 - To check confidence of participants
 - To ensure some people get left out
 - All of the above
- Q.47 Which of the skills is gauged through Group Discussion?
- Technical skills
 - Managerial skills
 - Writing skills
 - None of the above
- Q.48 What should you not do in an interview?
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- A high standard of living
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- Leave the opportunity
 - Ask something obvious
 - Ask the panelist’s salary
 - Enquire about your training as a fresher

End Semester Examination, May 2018

B. Tech. — Fifth Semester

FRENCH (HM-506)

Time: 1.5 hrs.

Max Marks: **50**

No. of pages: **2**

Note: *Attempt all questions.*

**Q.1 Conjuguez les verbes:
(Conjugate the verbs)**

- a) Vous _____ (Aller) au cinéma?
- b) Il _____ (Avoir) une grand maison.
- c) Elle _____ (Être) belle.
- d) Je _____ (Manger) la pizza.
- e) J _____ (Aimer) la prune.
- f) Ils _____ (Regarder) le film.
- g) Ritu _____ (Habiter) à Paris?
- h) Elle _____ (Chanter) la chanson.

1×8

**Q.2 a) Complétez les articles:
(Complete with articles)**

L'article défini:- (Definite article)

- i) _____ maison.
- ii) _____ école.
- iii) _____ fils.
- iv) _____ glace.
- v) _____ livres.

1×5

b) L' article indefini:- (Indefinite article)

- i) _____ fille.
- ii) _____ garçons.
- iii) _____ cinéma.
- iv) _____ père.
- v) _____ homme.

1×5

**Q.3 Quelle heure est-il?
(What time is it?)**

- a) 00:00h _____
- b) 4:50h _____
- c) 15:30h _____
- d) 9: 45 _____
- e) 1:00h _____

1×5

**Q.4 Présentez- vous en 5 phrases
(Describe yourself in 5 sentences)**

1×5

Q.5 Complétez avec les jours de la semaine et les mois de l' année: (Complete with days of the week & month of the year)

- a) L' anniversaire de mon frère en _____ (August)
- b) Diwali est en _____ (November)
- c) Nous sommes au mois de _____ (May)
- d) Je suis à la maison le _____ (Sunday)
- e) Tu vas à l' école le _____ (Monday)
- f) Le dernier et premier mois de l' année sont _____ et _____ (December & January)
- g) Le weekend est _____ et _____.
- h) Demain, C' est _____ (Thursday).

1×10

Q.6 Répondez aux questions: (Answer the questions)

- a) Comment ça va?
_____.
- b) Où habitez-vous?
_____.

1×2

Q.7 Écrivez les salutations en français: (Write the salutations in French)

- a) Please:- _____
- b) Good Evening:- _____
- c) Thank you:- _____
- d) Good day:- _____

1×4

Q.8 Reliez les colonnes: (Match the columns)

S.NO	A	B
1	Nous	I
2	Ils/Elles	You (Singular)
3	Vous	We
4	Je	He/Elle
5	Il/Elle	They all (Plural)
6	Tu	You (Several people)

1×6

End Semester Examination, May 2018

B. Tech. — Fifth Semester

FRENCH-I (HM-506)

Time: 1.5 hrs.

Max Marks: **50**

No. of pages: **2**

Note: Attempt all questions.

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(Conjugate the verbs)**

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- c) Elle _____ (Être) belle.
- d) Je _____ (Manger) la pizza.
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- g) Ritu _____ (Habiter) à Paris?
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(Complete with articles)**

L'article défini:- (Definite article)

- i) _____ maison.
- ii) _____ école.
- iii) _____ fils.
- iv) _____ glace.
- v) _____ livres. **1×5**

b) L' article indefini:- (Indefinite article)

- i) _____ fille.
- ii) _____ garçons.
- iii) _____ cinéma.
- iv) _____ père.
- v) _____ homme. **1×5**

**Q.3 Quelle heure est-il?
(What time is it?)**

- a) 00:00h _____
- b) 4:50h _____
- c) 15:30h _____
- d) 9: 45 _____
- e) 1:00h _____ **1×5**

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(Describe yourself in 5 sentences)**

1×5

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- d) Je suis à la maison le _____ (Sunday)
- e) Tu vas à l' école le _____ (Monday)
- f) Le dernier et premier mois de l' année sont _____ et _____ (December & January)
- g) Le weekend est _____ et _____.
- h) Demain, C' est _____ (Thursday).

1×10

Q.6 Répondez aux questions: (Answer the questions)

- a) Comment ça va?
_____.
- b) Où habitez-vous?
_____.

1×2

Q.7 Écrivez les salutations en français: (Write the salutations in French)

- a) Please:- _____
- b) Good Evening:- _____
- c) Thank you:- _____
- d) Good day:- _____

1×4

Q.8 Reliez les colonnes: (Match the columns)

S.NO	A	B
1	Nous	I
2	Ils/Elles	You (Singular)
3	Vous	We
4	Je	He/Elle
5	Il/Elle	They all (Plural)
6	Tu	You (Several people)

1×6

End Semester Examination, May 2018

B. Tech. — Fifth Semester

GERMAN-I (HM-507)

Time: 1.5 hrs.

Max Marks: **50**

No. of pages: **2**

Note: Attempt all questions. Marks are indicated against each question.

Q.1 Ergänzen Sie die Verben in der richtigen Form:
(Fill in the suitable verb forms)

komme n	kaufen	studieren n	schwimm en	trinke n	sprech e n	wohne n	lernen n
------------	--------	----------------	---------------	-------------	------------------	------------	-------------

- a) _____ ihr gern Popmusik?
b) Ich _____ aus Italien.
c) Was _____ Sie? Auto oder Haus?
d) Ich _____ Deutschland sehr schön.
e) _____ du Deutsch und Englisch?
f) _____ Sie einen Kaffee?
g) Er _____ seit (since) 12 Jahren in Deutschland.
h) Vera _____ zu Hause.
i) Er _____ gern in die Disko.
j) Sie (she) _____ Mathematik.

1×10

Q.2 Hier fehlt der Artikel:
(Write the missing article)

- a) _____ Kuchen
b) _____ Tee
c) _____ kaffee
d) _____ Wein
e) _____ Kuchen
f) _____ Limonade
g) _____ Orangensaft
h) _____ Wasser
i) _____ Butter
j) _____ Wein

1×10

Q.3 Schreiben sie die W-Frage:
(Write W-question)
(10marks)

- a) _____ alt bist du?
b) _____ kommst du aus?
c) _____ ist dein Name?
d) _____ wohnen Sie?
e) _____ sprachen sprechen Sie?
f) _____ haben Sie den Geburtstag?
g) _____ ist deine Muttername?
h) _____ ist ihre Adresse?
i) _____ möchten Sie essen?
j) _____ lernen Sie Deutsch?

1×10

End Semester Examination, May 2018

B. Tech. — Fifth Semester

SPANISH-I (HM-508)

Time: 1.5 hrs.

Max Marks: **50**

No. of pages: **2**

Note: Attempt all questions. Marks are indicated against each question.

**Q.1 Escribe la cuenta entre 20-40:
(Write counting between 20-40)**

1×10

**Q.2 Completa las conjugaciones de los verbos y traduce la conjugacion completo de cualquiera de ellos:
(Complete the conjugations of the verbs and translate the complete conjugation of any 1 of the verbs)**

PRONOMBRE PERSONAL	COMPRAR	TRABAJAR	ESCUCHAR
YO	Compro		
TU		Trabajas	
			Escucha
NOSOTROS			
	Compráis		
ELLOS/AS			Escuchan

1×10

**Q.3 Escribe el pronombre personal de sujeto al lado de cada forma:
(Write the subject's personal pronoun next to each form)**

Porejemplo:

Escuchan: Ellos/Ellas

a) Tengo _____

b) Trabajais _____

c) Hablamos _____

d) Estas _____

e) Habla _____

1×5

**Q.4 Escribe los verbos en espanol:
(Write verbs in Spanish)**

Verbs in English	Verbs in Spanish
To read	
To	

talk/sp eak	
To work	
To have	
To eat	

1×5

**Q.5 Escribe 3 Usos basicos del Verbo 'TENER' con ejemplos:
(Write 3 basic uses of verb 'Tener' with an example to each)**

USOS	EJEMPLOS
1.	
2.	
3.	

2×3

**Q.6 Escribe 5 líneas sobre ti:
(Write 5 lines about yourself)**

2×5

**Q.7 Completa la tabla usando articulos definidos y indefinidos:
(Complete the table using definite and indefinite articles)**

OBJETOS	Articulo Definido	Articulo Indefinido
1. Libro	El Libro	Un libro
2. Pizzara		
3. Botella		
4. Bolso		
5. Manzana		

1×4

End Semester Examination, May 2018

B. Tech. – Sixth Semester CAREER SKILLS-IV (HM-602)

Time: 2 hrs

Max Marks: **50**
No. of pages: 4

Note: The paper consists of **FIFTY** multiple choice questions; Each question has **FOUR** options with **ONE** correct answer. Attempt all questions. All questions are of **ONE** mark each. There is no negative marking. Mention the correct options for each question in the answer key. (Answers marked outside the answer key will not be evaluated.) Calculator is not allowed.

101.	102.	103.	104.	105.	106.	107.	108.	109.	110.
111.	112.	113.	114.	115.	116.	117.	118.	119.	120.
121.	122.	123.	124.	125.	126.	127.	128.	129.	130.
131.	132.	133.	134.	135.	136.	137.	138.	139.	140.
141.	142.	143.	144.	145.	146.	147.	148.	149.	150.

Q.1 Which of the following statements is **not true** with respect to the first impression?

- a) Body language forms the 55% of first impression
- b) Talking incessantly helps us to make a good first impression
- c) Verbal tone is a very important component of forming the first impression
- d) The extent to which the Verbal content matters in first impression is just 7%

Q.2 While drafting a resume, which of the following points need to be kept in mind?

- a) The resume should be short as the recruiters do not have time to go through a bulky one
- b) The resume should be made using many font sizes
- c) A career objective should not be catchy
- d) A good qualification from a good institute is the only thing that the recruiters are looking for

Q.3 The SWOT analysis of a person talks about the:

- a) Smartness, Weaknesses, Opportunities and Threats

- b) Strengths, Words, Orderliness, and Time management
- c) Strengths, weaknesses, Opportunities and Threats
- d) Strong points, welfare, Opportunities and Time management

Q.4 Which of the following statements is true w.r.t. self introduction?

- a) A good self introduction lays a strong foundation for the rest of the interview
- b) It helps you to reflect confidence when the ice between you and the interviewer is being broken.
- c) You have about 60 seconds for self introduction.
- d) All of the above.

Q.5 Certain ground rules while participating in a group discussion are:

- a) Express ideas clearly and concisely
- b) Listen to what others have to say
- c) Talk for long periods; others should not be able to speak
- d) Only (i) and (ii)

Q.6 A well-crafted and well-practiced Self Introduction helps you to

- a) Present your first answer with poise and confidence.

- Q.17 Which of the following should be checked before going for an interview?
- Wear neatly ironed formals without creases
 - The arms of the shirt should not be folded
 - Take care of your body odor
 - All of the above.
- Q.18 In a resume, the educational credentials and the work experience should be mentioned in
- Chronological order
 - Reverse chronological order
 - Any which way
 - None of the above
- Q.19 The duration of the group discussion is 15-20 minutes so that
- The objective of GD is achieved
 - To make the participants nervous
 - To ensure that everyone does not speak
 - To find the most vocal participants
- Q.20 When is a cover letter submitted?
- While applying for a job
 - During the interview
 - After the interview
 - None of the above
- Q.21 The ratio of income of A and B is 3:4. The Ratio of expenditure of both is 2: 3 and each saves RS 200. Find the income of A and B.
- Rs 500,600
 - Rs 600,800
 - Rs 600,900
 - Rs 800,1000
- Q.22 A person covers a certain distance by Train, Bus and Car in the ratio 4:3:2.the ratio of fair is 1:2:4 per km. The total expenditure as a fair is Rs 720. Then, total expenditure as fair on train.
- Rs. 140
 - Rs. 150
 - Rs. 160
 - Rs. 170
- Q.23 Average cost of 5 apples and 4 mangoes is Rs. 36. The average cost of 7 apples and 8 mangoes is Rs. 48. Find the total cost of 24 apples and 24 mangoes.
- 1044
 - 2088
 - 720
 - 344
- Q.24 The average of runs of a cricket player of 10 innings was 32. How many runs must be made in his next innings so as to increase his average of runs by 4?
- 70
 - 72
 - 74
 - 76
- Q.25 A car owner buys petrol at Rs.7.50, Rs. 8 and Rs. 8.50 per litre for three successive years. What approximately is the average cost per litre of petrol if he spends Rs. 4000 each year?
- Rs. 7.98
 - Rs. 8
 - Rs. 8.50
 - Rs. 9
- Q.26 Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. What are the marks obtained by them?
- 42, 33
 - 44, 36
 - 43, 36
 - 42, 36
- Q.27 When a number is first increased by 10% and then reduced by 10%, the number is:
- No change
 - Decreases by 1%
 - Increases by 1%
 - None of these

- Q.28 The average age of three boys is 25 years and their ages are in the proportion 3: 5: 7. The age of the youngest boy is:
a) 21 b) 18 c) 15 d) 9
- Q.29 By selling 45 lemons for Rs 40, a man loses 20 %. How many should he sell for Rs 24 to gain 20 % in the transaction?
a) 16 b) 18 c) 20 d) 22
- Q.30 A shopkeeper cheats to the extent of 10% while buying and selling, by using false weights. His total gain is
a) 20% b) 21% c) 22% d) 23%
- Q.31 If the manufacturer gains 10 %, the wholesale dealer 15 % and the retailer 25 %, then find the cost of production of a table if the retail price was Rs 1265.
a) 750 b) 800
c) 850 d) 900
- Q.32 If the cost price is 25% of selling price. Then what is the profit percent.
a) 150% b) 200%
c) 300% d) 350%
- Q.33 In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?
a) 6.25 b) 6
c) 7 d) 9
- Q.34 Average of five numbers is 27. If one number is excluded the average becomes 25. The excluded number is:
a) 35 b) 45 c) 55 d) 65
- Q.35 A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
a) 900 b) 700
c) 1100 d) 1200
- Q.36 A monkey starts climbing up a tree 20ft. tall. Each hour, it hops 3ft. and slips back 2ft. How much time would it take the monkey to reach the top?
a) 21 b) 12 c) 18 d) 15
- Q.37 If a merchant makes a profit of 20% after giving a 20% discount, what should be his mark-up?
a) 20% b) 40% c) 50% d) 60%
- Q.38 What is the value of 37.5% of 488?
a) 190 b)
183 d)
c) 170 173
- Q.39 If 80% of A = 50% of B and B = x% of A, then the value of " X" is
a) 400 b) 300
c) 160 d) 150
- Q.40 For a sphere of radius 10 cm, the numerical value of surface area is what percent of the numerical value of its volume?
a) 10% b) 30% c) 40% d) 20%
- Q.41 A: B: C is in the ratio of 3: 2: 5. Then how much money will C get out of Rs 500.
a) Rs. 200 b) Rs. 250
c) Rs. 300 d) Rs. 350

c) $1/6$ d) $1/12$

Q.2 Two cards are drawn at random from a pack of 52 cards. What is the probability that either both are black or both are queen?

a) $52/221$ b) $55/190$

c) $55/221$ d) $19/221$

Q.3 An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is?

a) 1.04 b) 2.04

c) 3.04 d) 4.04

Q.4 The area of in-circle of an equilateral triangle of side 42 cm is?

a) 462cm^2 b) 452cm^2

c) 442cm^2 d) 432cm^2

Q.5 The wheel of a motorcycle, 70 cm in diameter makes 40 revolutions in every 10 seconds. What is the speed of the motorcycle in km/hr?

a) 30.68 km/hr b) 31.68 km/hr

c) 32.68 km/hr d) 33.68 km/hr

Q.6 A circular well with a diameter of 2 meters, is dug to a depth of 14 meters. What is the volume of the earth dug out?

a) 40m^3 b) 42m^3

c) 44m^3 d) 46m^3

Q.7 If a right circular cone of height 24 cm has a volume of 1232 cm cube, then the area of its curved surface is?

a) 450cm^2 b) 550cm^2

c) 650cm^2 d) 750cm^2

Q.8 A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box is?

- a) 4120 m^3 b) 4140 m^3
c) 5140 m^3 d) 5120 m^3

Q.9 The volume of the largest right circular cone that can be cut out of a cube of edge 7 cm is?

- a) 79.8 cm^3 b) 79.4 cm^3
c) 89.8 cm^3 d) 89.4 cm^3

Q.10 How many iron rods, each of length 7 m and diameter 2 cm can be made out of 0.88 m^3 of iron?

- a) 500 b) 600
c) 400 d) 300

Directions (Q11 to 15): Study the following table carefully to answer the following questions.

Number of students studying in five different disciplines from five Institutes:

Discipline Institutes	Arts	Commerce	Science	Managem ent	Comp. Sci.
A	350	260	450	140	300
B	240	320	400	180	320
C	460	300	360	160	380
D	440	480	420	120	340
E	280	360	340	200	330

Q.11 What is the average number of students studying Commerce from all the Institutes together?

- a) 356 b) 360

- c) 348 d) 344

Q.12 The total number of students studying Arts from Institutes A and B together is approximately what percent of the total number of students studying Computer Science from these two Institutes?

- a) 84 b) 85
c) 88 d) 95

Q.13 The number of students studying Commerce from Institute D is what percent of the total number of students studying all the disciplines together from the same Institute?

- a) $28 \frac{1}{3}$ b) $26 \frac{2}{3}$
c) $24 \frac{2}{3}$ d) $24 \frac{1}{3}$

Q.14 What is the ratio between the total number of students studying Science from Institutes C and D together and the total number of students studying computer Science from these two Institutes together respectively?

- a) 13:12 b) 12:13
c) 13:15 d) 15:13

Q.15 What is the average number of students studying all disciplines together from Institute E?

- a) 312 b) 310
c) 30 d) 304

Q.16 In a Cricket cup total 153 matches were played and every two teams played exactly one match with each other. So, what was the total number of teams participating in Cricket Cup?

- a) 15 b) 16
c) 17 d) 18

- Q.17 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?
- a) 47200 b) 48000
c) 42000 d) 50400
- Q.18 A bag contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the bag, if at least one black ball is to be included in the draw?
- a) 64 b) 128
c) 32 d) None of these
- Q.19 A 6×6 grid is cut from an 8×8 chessboard. In how many ways can we put two identical coins, one on the black square and one on a white square on the grid, such that they are not placed in the same row or in the same column?
- a) 216 b) 324
c) 144 d) 108
- Q.20 Four dice are thrown simultaneously. Find the probability that all of them show the same face?
- a) $1/216$ b) $1/36$
c) $4/216$ d) $3/216$
- Q.21 The probability of success of three students X,Y and Z in the one examination are $1/5$, $1/4$ and $1/3$ respectively. Find the probability of success of at least two?
- a) $1/6$ b) $2/5$
c) $3/4$ d) $3/5$

Directions (Q22 to Q25): Each problem consists of a question and two statements, labeled (I) and (II), in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the question. Mark,

- A. If statement (i) ALONE is sufficient, but statement (ii) alone is not sufficient to answer the question.
- B. If statement (ii) ALONE is sufficient, but statement (i) alone is not sufficient to answer the question.
- C. If EACH statement ALONE is sufficient to answer the questions asked.
- D. If BOTH statements (i) and (ii) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient.

- E. If statements (i) and (ii) TOGETHER are NOT sufficient to answer the question asked and additional data specific to the problem are needed.

Q.22 What will be the total weight of 10 poles each of the same weight?

- I. One-fourth of the weight of a pole is 5 kilograms.
- II. The total weight of three poles is 20 kilograms more than the total weight of two poles.

Q.23 How is D related to A?

- I. B is the brother of A.
- II. B is D's son.

Q.24 How much amount Ronnie required to pay for the new car in the buy-back scheme?

- I. The cost of the new car was three times the cost price of his old car.
- II. His old car was valued at its 25000 under buy-back scheme.

Q.25 In a code, 'lee pee tin' means 'Always keep smiling'. What is the code for?

- I. 'tin lut lee' means 'Always keep left'.
- II. 'dee pee' means 'Rose smiling'.

Q.26 In a certain code language 'how many goals scored' is written as '5397'; 'many more matches' is written as '982'; and 'he scored five' is written as '163'. How is 'goals' written in that code language?

- a) 5

- b) 7
- c) 3
- d) Data is not sufficient

Q.27 In a row of thirty boys, R is fourth from the right end and W is tenth from the left end. How many boys are there between R and W?

- a) 15
- b) 16
- c) 17
- d) Can't be determined

Q.28 Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?

- a) Grandson b) Son
- c) Son in law d) Cousin

Q.29 A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?

- a) P b) X
- c) S d) Z

Q.30 Statements: All the windows are doors.

No door is a wall.

Conclusions: 1. Some windows are walls.

2. No wall is a door.

- a) Only (1) conclusion follows
- b) Only (2) conclusion follows
- c) Either (1) or (2) follows

d) Neither (1) nor (2) follows

Directions (Q31 to Q35): Read the following passage carefully and answer the following questions:

Environmental protection and management is deservedly attracting a lot of attention these days. This is a desirable development in the face of the alarming rate of natural resources degradation, which greatly hampers their optimal utilization. When waste waters emanating from municipal sewage, industrial effluent, agriculture and land runoffs find their way either to ground water reservoirs or to other surface water sources, the quality of water is not controlled. This is because the cleansing forces of nature cannot do their job in proportion to the production of filthy matter.

According to the National Environment Engineering and Research Institute (NEERI), a staggering 70 percent of water available in the country is polluted. According to the Planning Commission: "From the Dal Lake in the North to the Chaliyar River in the South, from Damodar and Hooghly in the East to the Thane creek in the West, the picture of water pollution is uniformly gloomy. Even our large perennial rivers, like the Ganga, are today heavily polluted."

According to one study, all the 14 major rivers of India are highly polluted. Beside the Ganga, these rivers include the Yamuna, Narmada, Godavari, Krishna and Cauvery. These rivers carry 85 percent of the surface runoff and their drainage basins cover 73 percent of the country. The pollution of the much-revered Ganga is due in particular to municipal sewage that accounts for 3/4th of its pollution load. Despite India having legislation on water pollution [The Water (Prevention and control of Pollution) Act 1974] and various water pollution control boards, rivers today have become synonymous with drains and sewers.

Untreated community wastes discharged into water courses from human settlements account for four times as much water as industrial effluent. Out of India's 3,119 towns and cities, only 217 have partial (209) or full (8) sewerage treatment facilities and cover less than a third of the urban population. Statistics reveal that 1,700 of 2,700 water using industries in India are polluting the water around their factories. Only 160 have water waste treatment plants. One estimate suggests that the volume of waste water of industrial origin will be comparable to that of domestic sewerage in India by 2000 AD. Discharges from agricultural fields which carry fertilizing ingredients of nitrogen, phosphorous and pesticides are expected to be three times as much as domestic sewage. By the date, thermal pollution generated by discharges from thermal power plants will be the largest in volume.

Toxic effluents deplete the levels of oxygen in the rivers, endanger all aquatic life and render water absolutely unfit for human consumption, apart from affecting industrial production. Sometimes these effects have been disastrous. A recent study reveals that the water of Ganga, Yamuna, Kali and Hindan rivers have considerable concentrations of heavy metals due to inflow of industrial wastes, which pose a serious health hazard to the millions living on their banks. Similarly, the Cauvery and Kapila rivers in Karnataka have been found to contain metal pollutants, which threaten the health of people in riverine towns. The Periyar, the largest river of Kerala, receives extremely toxic effluents that result in high incidence of skin problems and fish kills. The Godavari of Andhra Pradesh and the Damodar and Hooghly in West Bengal receive untreated industrial toxic wastes. A high level of pollution has been found in the Yamuna, while the Chambal of

Rajasthan is considered the most polluted river in Rajasthan. Even in industrially backward Orissa, the Rushikula River is extremely polluted. The fate of the Krishna in Andhra Pradesh, the Tungabhadra in Karnataka, the Chaliyar in Kerala, the Gomti in U.P, the Narmada in M.P. and the Sone and the Subarnarekha rivers in Bihar is no different. According to the W.H.O. eighty percent of diseases prevalent in India are water-borne; many of them assume epidemic proportions. The prevalence of these diseases heightens under conditions of drought. It is also estimated that India loses as many as 73 million man-days every year due to water prone diseases, costing Rs. 600 crore by way of treatment expenditure and production losses. Management of water resources with respect to their quality also assumes greater importance especially when the country can no more afford to waste water.

The recent Clean-the-Ganga Project with an action plan estimated to cost the exchequer Rs. 250 crore (which has been accorded top priority) is a trendsetter in achieving this goal. The action plan evoked such great interest that offers of assistance have been received from France, UK, US and the Netherlands and also the World Bank. This is indeed laudable. Poland too has now joined this list. The very fact that these countries have volunteered themselves to contribute their might is a healthy reflection of global concern over growing environmental degradation and the readiness of the international community to participate in what is a truly formidable task. It may be recalled that the task of cleansing the Ganga along the Rishikesh-Hardwar stretch under the first phase of the Ganga Action Plan has been completed and the results are reported to be encouraging.

The crisis of drinking water is deepening because water resources are drying up and the lowering of ground water through overpumping; this is compounded by the pollution of water sources. All these factors increase the magnitude of the problem. An assessment of the progress achieved by the end of March 1985, on completion of the first phase of the International Drinking Water Supply and Sanitation Decade (1981-91) reveals that drinking water has been available to 73 percent of the urban population and 56% of the rural population only. This means that nearly half the country's rural population has to get drinking water facilities. This needs to be urgently geared up especially when considered against the Government's professed objective of providing safe drinking water and sanitation to all by the end of the International Drinking Water Supply and Sanitation Decade i.e; March 1991. The foremost action in this would be to clean up our water resources.

As per surveys conducted by the NEERI, per capita drinking water losses in different cities in the country range between 11,000 and 31,000 litres annually. This indicates a waste level of 20 to 35 percent of the total flow of water in the distribution system primarily due to leaks in main and household service pipes. Preventive maintenance programme would substantially reduce losses and wastages, and would certainly go a long way in solving the problem.

According to the Union Minister of Works and Housing, out of 2.31 lakh problem villages have been provided with at least one source of drinking water as of March, 1986. The balance (38,748) villages are expected to be covered during the seventh plan. A time bound national policy on drinking water is being formulated by the government wherein the task is proposed to be completed by the end of the seventh plan. An outlay of Rs. 6,522.47 crores has been allotted for the water supply and sanitation sector in seventh plan period against an outlay of Rs. 3,922.02 crores in the sixth plan. Of this, outlay for rural water supply sector is Rs. 3,454.47 crore. It is expected that this outlay would help to cover about 86.4 percent of the urban and 82.2 percent of the rural population with safe drinking water facilities by March 1991. Hygienic sanitation facilities would be provided to 44.7 percent and 1.8 percent of the urban and rural population respectively

within the same period.

Q.31 The degradation of a natural resources will necessarily lead to?

- a) poor economic utilisation of resources.
- b) contamination of water from municipal sewage.
- c) water unfit for human consumption.
- d) none of the above

Q.32 According to NEERI?

- a) the extent of water pollution in the Dal Lake is extremely alarming and irreversible.
- b) 70 percent of the total water available in the country is polluted.
- c) Only 217 out of 3119 towns and cities have sewage treatment facilities.
- d) all the 14 major rivers of India are highly polluted.

Q.33 Municipal sewage pollutants accounts for:

- a) the lowest percentage of water pollution.
- b) 75 percent of the Ganga's water pollution load.
- c) twice the volume of the waste water of industrial origin.
- d) three times as much as the discharge from agricultural fields.

Q.34 Which of the following statements is correct?

- a) The river Periyar is in South India.
- b) The river Periyar is the largest river of Kerala.
- c) The river Gomti is extremely polluted.
- d) All of the above are correct.

Q.35 The cost of the Clean-the-Ganga Pollution Project Action Plan is likely to be sourced from

- a) The Indian Exchequer.
- b) France, UK, US and the Netherlands.
- c) The world Bank, Poland, UK
- d) The US, UK, Netherlands, Poland, France the World Bank and India

Directions (Q36 to Q40): In this exercise, the dialogue between two people is jumbled in four parts, i.e. 1, 2, 3 and 4. Arrange these jumbled sentences into a logical order to make a meaningful dialogue.

Q.36 1. "Oh my God! What about your Father? Any sign of him?"

2. "No Mum, just the trolley. Shall we go out and see if we can find him?"

3. "No! Whatever happens, we must stay here. It's a trap." Those lights are there to lure us out."

4. "Mum, come quick! The big people have found Dad's shopping trolley and put it on their table next to two huge lights."

- a) 2134 b) 4123
- c) 4321 d) 1243

Q.37 1. "Just want to let you know kid, in case you were wondering, that last cake, the chocolate éclair, it's got my name on it. Touch it and I'll have your fingers off!"

2. "Well kid, it's up to you. What's it going to be, cake or fingers?"

3. "Mum, mum, Aunt Sally's dog just said he's gong to bite me. He says the chocolate éclair's his."

4. "Don't be silly dear, little Henry can't talk, he's a dog. Now play nicely with him, there's a darling. And don't feed him any of your cake, Aunt Sally has got him on a strict diet."

- a) 1342 b) 2341
- c) 1432 d) 2314

- Q.38 1. "No idea mate. I just process things this end. My job's to make sure you leave your clothes and any other earthly possessions here before you go down the hole. A bloke called Peter will meet you at the bottom and send you on your way."
2. This morning, I think. I remember crossing the road outside my office, hearing the sreech of brakes then nothing. Next thing I know I'm in this queue."
3. "According to my list you should've been knocked down by that lorry yesterday morning not today. Bloody typical of the Grim Reaper, always messing up his timings. Still you're here now. Get you're clothes off, you're next."
4. "But where am I going?"
- a) 3214 b) 2341
- c) 1243 d) 2413
- Q.39 1. "But kids, it's really important. I need all the help I can get and we haven't got much time left. I thought I felt some rain as I was coming in. This could be it."
2. "Noah, leave the children be and stop scaring them. Get back to your boat building and I'll come out and give you a hand after tea. And Noah... please take that silly helmet off, you're going to frighten the neighbours."
3. Dad, leave us alone. We're having fun building dens. We keep telling you, we don't want to help you outside!"
4. "Mum! Dad's being weird again."
- a) 3142 b) 4231
- c) 1324 d) 1234
- Q.40 1. "Seems the driver leant out of the car screaming at everyone to get out of his way. Started honking his horn. There was panic. That's when that fiery young lamb, Jake leapt at him and tore off his arm. Blood everywhere."
2. "Not sure mate. Someone says the idiot in the car wouldn't slow down. Seems he hit the old ewe, Matilda. You know, her with the dodgy back legs. She never stood a chance."
3. "Then what? I just heard the screams. That's when I started running."
4. "What's happened Joe?"

a) 1323 b) 4231

c) 1324 d) 1243

Directions (Q41 to Q45): Determine the meaning of the expression in bold. Choose the best answer.

- Q.41 The researchers at the renowned UC Berkeley have a long history of pushing the envelope in regard to computer science.
- a) This means that these researchers have long followed behind others in the field.
 - b) This means that these researchers have long led efforts in the field.
 - c) This means that these researchers have kept up with trends in the field.
 - d) This means that these researchers have long attempted to do away with paper record keeping.
- Q.42 Even though Lucas had been bullying the new kid since the beginning of the year, Lucas shed his crocodile tears after the principal caught him and threatened him with suspension.
- a) This means that Lucas genuinely feels sorry for his actions.
 - b) Alvin should not be concerned about how Catherine is treating him.
 - c) This means that Lucas was afraid of the principal.
 - d) This means that Lucas was afraid of the new kid.
- Q.43 Ever since country western super group The Mountain Boys started wearing stovepipe hats, those hats have been selling like hotcakes.
- a) This means that stovepipe hats have been selling quickly.
 - b) This means that stovepipe hats have been selling slowly.
 - c) This means that stovepipe hats have been selling at an average pace.
 - d) This means that stovepipe hats have not been selling at all.
- Q.44 Even though Candace already had a new job, she submitted her two-week notice and conducted herself in a professional way at her old job because she didn't want

to burn bridges.

- a) Candace didn't want to ruin her positive relationship with her old employer.
- b) Candace wasn't ready to start her new job.
- c) Alvin should go and get lunch and reflect on Catherine's attitude.
- d) Candace was waiting until her last day to rub it in everyone's face that she was leaving.

Q.45 I know that Catherine has been really unpleasant toward you, Alvin, but take it with a grain of salt: she's mean to everyone.

- a) Alvin should try hard to get on Catherine's good side.
- b) Alvin should be worried that Catherine is not treating him kindly.
- c) The Mountain Boys are always willing to perform at charity events.
- d) Alvin should not be concerned about how Catherine is treating him.

Directions (Q46 to Q50): One Word Substitution.

Q.46 A style full of words:

- a) Verbose b) Pedantic
- c) Rhetorical d) Abundant

Q.47 One who is in charge of museum?

- a) Curator b) Supervisor
- c) Caretaker d) Warden

Q.48 An official for which no salary is paid.

- a) Hospitable b) Honorary
- c) Free d) Gratis

Q.49 One who does not marry, especially as a religious obligation?

- a) Bachelor b) Celibate
- c) Virgin d) All of the them

Q.50 To walk with slow or regular Steps is to:

- a) Limp b) Stride
- c) Pace d) Advance

End Semester Examination, May 2018

B. Tech. – Sixth Semester

QUANTITATIVE APTITUDE AND PERSONALITY DEVELOPMENT-III (HM-603A)

Time: 2 hrs.

Max Marks: 50

No. of pages: 7

Note: The paper consists of **FIFTY** multiple questions; each question has **FOUR** options with **ONE** correct answer. Select the correct answer. Attempt all questions. All questions are of **ONE** mark each. There is no negative marking. Mention the correct option for each question in the blank answer key given herein below. (Answer sheets with empty answer keys despite the correct options being ticked, will not be evaluated)

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.

- Q.1 A bag contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the bag, if at least one black ball is to be included in the draw?
- a) 64 b) 128
- c) 132 d) 222
- Q.2 In a Cricket cup total 153 matches were played and every two teams played exactly one match with each other. So, what was the total number of teams participating in Cricket Cup?
- a) 15 b) 16
- c) 17 d) 18
- Q.3 A bag contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the bag, if at most one black ball is to be included in the draw?
- a) 65 b) 128
- c) 32 d) None of these
- Q.4 A group consists of 4 men, 6 women and 5 children. In how many ways can 3 men, 2 women and 3 children selected from the given group?

- a) 300 b) 450
- c) 600 d) 750

Q.5 A bag contains 12 white and 18 black balls. Two balls are drawn in succession without replacement. What is the probability that first is white and second is black?

- a) $18/145$ b) $18/29$
- c) $36/135$ d) $36/145$

Q.6 The probability of success of three students X, Y and Z in the one examination are $1/5$, $1/4$ and $1/3$ respectively. Find the probability of success of at least two?

- a) $1/6$ b) $2/5$
- c) $3/4$ d) $3/5$

Q.7 From a pack of 52 cards, 3 cards are drawn. What is the probability that one is ace, one is queen and one is jack?

- a) $19/5525$ b) $21/5525$
- c) $17/5525$ d) $16/5525$

Q.8 When two dice are thrown simultaneously, what is the probability that the sum of the two numbers that turn up is less than 11?

- a) $5/6$ b) $11/12$
- c) $1/6$ d) $1/12$

Q.9 A speaks truth in 75% of cases and B in 80% of cases. In what percentage of cases are they likely to contradict each other, narrating the same incident?

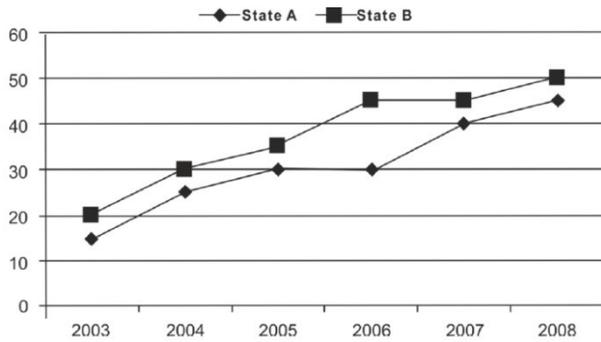
- a) $30/100$ b) $35/100$
- c) $45/100$ d) $50/100$

- Q.10 A wire can be bent in the form of a circle of radius 56cm. If it is bent in the form of a square, then its area will be?
- a) 7744 b) 8844
c) 5544 d) 4444
- Q.11 The area of in-circle of an equilateral triangle of side 42 cm is?
- a) 462cm^2 b) 452cm^2
c) 442cm^2 d) 432cm^2
- Q.12 The wheel of a motorcycle, 70 cm in diameter makes 40 revolutions in every 10 seconds. What is the speed of the motorcycle in km/hr?
- a) 30.68 km/hr b) 31.68 km/hr
c) 32.68 km/hr d) 33.68 km/hr
- Q.13 A cylindrical tank of diameter 35 cm is full of water. If 11 litres of water is drawn off, the water level in the tank will drop by?
- a) 1137cm b) 1127cm
c) 1117cm d) 11cm
- Q.14 If a right circular cone of height 24 cm has a volume of 1232 cm cube, then the area of its curved surface is?
- a) 450cm^2 b) 550cm^2
c) 650cm^2 d) 750cm^2
- Q.15 A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box is?
- a) 4120m^3 b) 4140m^3
c) 5140m^3 d) 5120m^3

Q.16 The cost of the paint is rs.36.50 per kg. If 1kg of paint covers 16sq.ft, how much will it cost to paint outside of a cube having 8 feet each side?

- a) ₹962 b) ₹672
- c) ₹546 d) ₹876

Directions (17-21): Study the following graph carefully to answer these questions:



Q.17 For state B the per cent rise in population from the previous year was the highest in which of the following years?

- a) 2008 b) 2006
- c) 2005 d) 2004

Q.18 What was the average population of state B (in millions) for all the years together?

- a) 38.5 b) 28.5
- c) 35 d) 37.5

Q.19 What is the per cent rise in population of state A in 2007 from the previous year?

- a) $25 \frac{2}{5}$ b) $33 \frac{1}{3}$

c) $33 \frac{4}{5}$ d) $25 \frac{1}{3}$

Q.20 What is the ratio between the total population of state A and that of state B respectively for all the years together?

a) 37:45 b) 37:43

c) 43:37 d) 45:37

Q.21 The population of state A in 2005 is what per-cent of its total population for all the years together for the same state?

a) $17 \frac{8}{13}$ b) $16 \frac{5}{33}$

c) $16 \frac{8}{37}$ d) 17

Directions (Q. 22 to Q. 25) : Each problem consists of a question and two statements, labelled (I) and (II), in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the question. Mark,

A) If statement i) ALONE is sufficient, but statement ii) alone is not sufficient to answer the question.

B) If statement ii) ALONE is sufficient, but statement i) alone is not sufficient to answer the question.

C) If EACH statement ALONE is sufficient to answer the questions asked.

D) If BOTH statements i) and ii) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient.

E) If statements i) and ii) TOGETHER are NOT sufficient to answer the question asked and additional data specific to the problem are needed.

Q.22 What day is the fourteenth of a given month?

I) The last day of the month is a Wednesday.

II) The third Saturday of the month was seventeenth.

Q.23 Among five friends who is the tallest?

- I) D is taller than A and C.
- II) B is shorter than E but taller than D.

Q.24 Vipin's and Javed's salaries are in the proportion of 4:3 respectively. What is Vipin's salary?

- I) Javed's salary is 75% that of Vipin's salary.
- II) Javed's salary is ₹4500.

Q.25 How is Tanya related to the man in the photograph?

- I) Man in the photograph is the only son of Tanya's grandfather.
- II) The man in the photograph has no brothers or sisters and his father is Tanya's grandfather.

Q.26 If $Z = 52$ and $ACT = 48$, then BAT will be equal to?

- a) 39 b) 41
- c) 44 d) 46

Q.27 If the day before yesterday was Saturday, what day will fall on the day after tomorrow?

- a) Friday b) Thursday
- c) Wednesday d) Tuesday

Q.28 Pointing to a gentleman, Shalini said, "His only brother is the father of my son's father". How is the gentleman related to Shalini?

- a) Grandfather b) Uncle
- c) Brother d) Father

Q.29 A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

- a) Between B and D
- b) Between B and C
- c) Between E and D
- d) Between C and E

Q.30 Statements: All buildings are chalks.

No chalk is toffee.

Conclusions: 1. No building is toffee.

2. All chalks are buildings.

- a) Only (1) conclusion follows
- b) Only (2) conclusion follows
- c) Either (1) or (2) follows
- d) Neither (1) nor (2) follows

Directions (Q.31 to Q.35): Read the following passage carefully and answer the following questions.

How quickly things change in the technology business! A decade ago, IBM was the awesome and undisputed king of the computer trade, universally feared and respected. A decade ago, two little companies called Intel and Microsoft were mere blips on the radar screen of the industry, upstart start-ups that had signed on to make the chips and software for IBM's new line of personal computers. Though their products soon became industry standards, the two companies remained protected children of the market leader.

What has happened since is a startling reversal of fortune. IBM is being ravaged by the worst crisis in the company's 79-year history. It is undergoing its fifth restructuring in the past seven years well as seemingly endless rounds of job cuts and firings that have eliminated 100,000 jobs since 1985. Last week, IBM announced to its shell-shocked investors that it lost \$4.97 billion last year-the biggest loss in American corporate history.

And just when IBM is losing ground in one market after another, Intel and Microsoft have emerged as the computer industry's most fearsome pair of competitors. The

numbers on Wall Street tell a stunning story. Ten years ago, the market value of the stock of Intel and Microsoft combined amounted to about a tenth of IBM's. Last week, with IBM's stock at an 11-years low, Microsoft's value surpassed its old mentor's value for the very first time (\$26.76 billion to \$26.48 billion) and Intel (\$ 24.3 billion) is not far behind. While IBM is posting losses, Intel's profits jumped 30%, and Microsoft's rose 44%.

Both Intel, the world's largest supplier of computer chips, and Microsoft, the world's largest supplier of computer software, have assumed the role long played by Big Blue as the industry's pacesetter. What is taking place is a generational shift unprecedented in the information age-one recalls a transition in the US auto industry 70 years ago, when Alfred Solan's upstart General Motors surpassed Ford Motor as America's No. 1 car maker. The transition also reflects the decline of computer manufacturers like IBM, Wang and Unisys, and the rise of companies like Microsoft, Intel and A T & T that create the chips and software to make the computers work. Just like Dr. Frankenstein, IBM is in danger of being trampled by the creations it unleashed.

Although Intel and Microsoft still have close relationship with Big Blue, there is little love lost between IBM and its potent progeny. IBM had an ugly falling-out with former partner Microsoft over the future of personal-computer software. Microsoft developed the now famous disk operating system for IBM-PC-called DOS and later created the operation software for the next generation of IBM personal computers the Personal System/2. When PS/2 and its operating system OS/2, failed to catch on, a feud erupted over how the two companies would upgrade the system. Although they publicly patched things up, the partnership was tattered. IBM developed its own version of OS/2, which has so far failed to capture the industry's imagination. Microsoft's competing version dubbed New Technology, or NT, offered several programmes at once. Window NT, however, will offer more new features, such as the ability to link many computers together in a network and to safeguard them against unauthorized use.

IBM and Intel have also parted company. After relying almost exclusively on the Santa Clara, California company for the silicon chips that serve as computer brains, IBM has moved to reduce its dependence on Intel by turning to competing vendors. In Europe, IBM last year began selling a low - cost line of PC's called Ambra, which runs on chips made by Intel rival Advanced Micro Devices. IBM also demonstrated a sample PC using a chip made by another Intel enemy, Cyrix. And last October IBM said it would begin selling the company's own chips to outsiders in direct competition with Intel.

IBM clearly feels threatened. And the wounded giant still poses the biggest threat to any further dominance by Intel and Microsoft. Last year it teamed up with both companies most bitter rivals-Apple Computers and Motorola, IBM bypassed its long-time partners. Just as Microsoft's standard operating system runs only on computers built around Intel's computer chips, Apples' software runs only on Motorola's chips. Although IBM has pledged that the new system will eventually run out of a variety of machines, it will initially run only computer programs written for Apple's Machintosh or IBM's Os/2. Its competitive juice now flowing, IBM last week announced that it and Apple Computer will deliver the operating system in 1994-a year ahead of schedule.

Q.31 As a result of greater competition in the US computer industry?

- a) Some computer companies are expanding while others are contracting.
- b) Employment in the industry is going down.
- c) The industry is becoming more monopolized.
- d) The share value of IBM is going up relative to that of Intel and Microsoft.

Q.32 Why is something that happened 70 years ago in the US auto industry being mentioned here?

- a) General Motors broke away from Ford Motor.
- b) A new company went ahead of an established market leader.
- c) Like Dr. Frankenstein, Ford Motor created a monster in General Motors.
- d) Microsoft, Intel and A T & T where originally created by IBM.

Q.33 Who is mentioned as the principal supplier of silicon chips to IBM?

- a) AT and T b) Microsoft
- c) Cyrix d) Intel

Q.34 The personal computer called Ambra is marketed by?

- a) Cyrix b) IBM
- c) Intel d) Microsoft

Q.35 What was the original reason for the feud between IBM and Microsoft?

- a) The two companies' development of competing software.
- b) Microsoft and Intel teamed up against IBM.
- c) IBM begun to purchase microchips from Intel instead of Microsoft.
- d) IBM made losses while Microsoft made profits.

Directions (Q.36 to Q.40) : In this exercise, the dialogue between two people is jumbled in four parts, i.e. 1, 2, 3 and 4. Arrange these jumbled sentences into a logical order to make a meaningful dialogue.

- Q.36
1. "Oh my God! What about your Father? Any sign of him?"
 2. "No Mum, just the trolley. Shall we go out and see if we can find him?"
 3. "No! Whatever happens, we must stay here. It's a trap." Those lights are there to lure us out."
 4. "Mum, come quick! The big people have found Dad's shopping trolley and put it on their table next to two huge lights."
- a) 2134 b) 4123
c) 4321 d) 1243
- Q.37
1. "Just want to let you know kid, in case you were wondering, that last cake, the chocolate éclair, it's got my name on it. Touch it and I'll have your fingers off!"
 2. "Well kid, it's up to you. What's it going to be, cake or fingers?"
 3. "Mum, mum, Aunt Sally's dog just said he's gong to bite me. He says the chocolate éclair's his."
 4. "Don't be silly dear, little Henry can't talk, he's a dog. Now play nicely with him, there's a darling. And don't feed him any of your cake, Aunt Sally has got him on a strict diet."
- a) 1342 b) 2341
c) 1432 d) 2314
- Q.38
1. "No idea mate. I just process things this end. My job's to make sure you leave your clothes and any other earthly possessions here before you go down the hole. A bloke called Peter will meet you at the bottom and send you on your way."
 2. "This morning, I think. I remember crossing the road outside my office, hearing the sreech of brakes then nothing. Next thing I know I'm in this queue."
 3. "According to my list you should've been knocked down by that lorry yesterday morning not today. Bloody typical of the Grim Reaper, always messing up his timings. Still you're here now. Get you're clothes off, you're next."

4. "But where am I going?"

a) 3214 b) 2341

c) 1243 d) 2413

Q.39 1. "But kids, it's really important. I need all the help I can get and we haven't got much time left. I thought I felt some rain as I was coming in. This could be it."

2. "Noah, leave the children be and stop scaring them. Get back to your boat building and I'll come out and give you a hand after tea. And Noah... please take that silly helmet off, you're going to frighten the neighbours."

3. Dad, leave us alone. We're having fun building dens. We keep telling you, we don't want to help you outside!"

4. "Mum! Dad's being weird again."

a) 3142 b) 4231

c) 1324 d) 1234

Q.40 1. "Seems the driver leant out of the car screaming at everyone to get out of his way. Started honking his horn. There was panic. That's when that fiery young lamb, Jake leapt at him and tore off his arm. Blood everywhere."

2. "Not sure mate. Someone says the idiot in the car wouldn't slow down. Seems he hit the old ewe, Matilda. You know, her with the dodgy back legs. She never stood a chance."

3. "Then what? I just heard the screams. That's when I started running."

4. "What's happened Joe?"

a) 1323 b) 4231

c) 1324 d) 1243

Directions (Q.41 to Q.45) : Determine the meaning of the expression in bold. Choose the best answer.

Q.41 The researchers at the renowned UC Berkeley have a long history of pushing the

envelope in regard to computer science.

- a) This means that these researchers have long followed behind others in the field.
- b) This means that these researchers have long led efforts in the field.
- c) This means that these researchers have kept up with trends in the field.
- d) This means that these researchers have long attempted to do away with paper record keeping.

Q.42 Even though Lucas had been bullying the new kid since the beginning of the year, Lucas shed his crocodile tears after the principal caught him and threatened him with suspension.

- a) This means that Lucas genuinely feels sorry for his actions.
- b) Alvin should not be concerned about how Catherine is treating him.
- c) This means that Lucas was afraid of the principal.
- d) This means that Lucas was afraid of the new kid

Q.43 Ever since country western super group The Mountain Boys started wearing stovepipe hats, those hats have been selling like hotcakes.

- a) This means that stovepipe hats have been selling quickly.
- b) This means that stovepipe hats have been selling slowly.
- c) This means that stovepipe hats have been selling at an average pace.
- d) This means that stovepipe hats have not been selling at all.

Q.44 Even though Candace already had a new job, she submitted her two-week notice and conducted herself in a professional way at her old job because she didn't want to burn bridges.

- a) Candace didn't want to ruin her positive relationship with her old employer.
- b) Candace wasn't ready to start her new job.

- c) Alvin should go and get lunch and reflect on Catherine's attitude.
- d) Candace was waiting until her last day to rub it in everyone's face that she was leaving.

Q.45 I know that Catherine has been really unpleasant toward you, Alvin, but take it with a grain of salt: she's mean to everyone.

- a) Alvin should try hard to get on Catherine's good side.
- b) Alvin should be worried that Catherine is not treating him kindly.
- c) The Mountain Boys are always willing to perform at charity events.
- d) Alvin should not be concerned about how Catherine is treating him.

Choose the BEST preposition to fill the gap in the following sentences:

Q.46 We are delighted that you will be working with us, welcome _____?

- a) in b) aboard
- c) to d) All of the above

Q.47 Can I come and sit _____ you?

- a) around b) next
- c) beside d) All of the above

Q.48 They have achieved so much _____ the difficulties they have had to overcome?

- a) regarding b) against
- c) considering d) All of the above

Q.49 The cottage is nestled _____ woodland on one side and pasture land on the other?

- a) between b) in
- c) behind d) All of the above

Q.50 This is the fourth floor and you need to go to the second floor to get to the bookshop. The _____ escalator is over there?

- a) under
- b) below
- c) down
- d) All of the above

End Semester Examination, May 2018

B. Tech. — Sixth Semester

FRENCH - II (HM-606)

Time: 1.5 hrs.

Max Marks: **50**

No. of pages: **3**

Note: Attempt all questions. Marks are indicated against each question.

Q.1 Vous venez de recevoir cette message. Répondez aux questions suivants:

 <p>Find more coloring pages for Amusement at www.amusement.com/blog</p>	<h1>Daniel</h1> <p>Fête ses 50 ans</p> <p>le samedi 17 février 2018 à la salle des fêtes de Bonneville Réponse souhaitée avant le 11 février.</p> <p>Daniel et Chantal Seroy 3 rue de la mansion 74130 Bonneville 04 50 25 35 42 daniel.seroy@courriel.fr</p>
--	---

a) **Cette lettre est une invitation à:**

- i) Un anniversaire
- ii) Un barbecue
- iii) Un mariage

2

b) **Où a lieu la fête?**

- i) Au restaurant.
- ii) Chez Danie.
- iii) Dans une salle des fêtes

2

c) **La fête est le:**

- i) 14 juillet
- ii) 11 février
- iii) 17 février

2

Q.2 Remplissez les blancs avec les professions:

(Fill the blanks with suitable nouns of profession)

- a) Le _____ travaille dans un hôpital.
- b) La _____ compose de la musique.
- c) Le _____ travaille dans une agence de journaux.
- d) Le _____ enseigne les étudiants.
- e) Le _____ répare les auto en panne.

1×5

Q.3 Écrivez le contraire des prépositions dans les parenthèses:

(Write the opposite form of the given prepositions)

- a) Le chien est _____ le lit (**devant**).
- b) Ma maison est _____ (**à gauche**) de l'école.
- c) Les livres sont _____ (**sur**) la table.
- d) Mon école est _____ (**près de**) l'église.
- e) On va au cinema _____ (**avec**) ses amis.

1×5

**Q.4 Complétez les phrases avec la correcte forme des adjectifs:
(Complete with the correct form of adjectives)**

- a) Il est **beau**. Elle est _____.
- b) Ils sont **gros**. Elles sont _____.
- c) Elle est **mince**. Il est _____.
- d) Ma mère est **gentille**. Mon père est _____.
- e) Elle est **petite**. Il est _____.

1×5

**Q.5 Mettez au pluriel:
(Write in plural)**

- a) Il invite un ami.
_____.
- b) Je choisis une glace.
_____.
- c) Tu finis le gâteau.
_____.
- d) La fille regarde l'homme.
_____.
- e) Elle a un cahier.
_____.

1×5

**Q.6 Conjuguez les verbes:
(Conjugate the verbs)**

- a) Il _____ les livres (**détester**).
- b) Nous _____ indiens (**être**).
- c) Elles _____ des fruits (**Choisir**).
- d) Vous _____ dans votre chambre (**danser**).
- e) Tu _____ dix ans (**avoir**).
- f) Les étudiants _____ très vite. (**Grandir**)
- g) Nous _____ manger le pizza. (**Aimer**)

1×7

**Q.7 Répondez aux questions:
(Answer the following question)**

- a) Quel temps fait-il en été?
_____.
- b) Quel temps fait-il au printemps?
_____.
- c) Quel temps fait-il en automne?
_____.
- d) Quel temps fait-il en hiver?
_____.

1×4

**Q.8 Complétez avec les adjectifs possessifs:
(Complete with adjective possessive)**

- a) Je parle avec _____ parents.

- b) Paul invite _____ amie.
- c) _____ cheveux sont longs.
- d) Ils aiment _____ enfants.
- e) Tu visite _____ appartement.
- f) Nous prenons _____ cartable du marché.
- g) Vous regardez _____ télévision.
- h) Elles aiment _____ mère.

1x8

**Q.9 Décrivez votre maison. OU Écrivez votre journée quotienne:
(Describe your house while using prepositions OR Write your daily routine)**

5

End Semester Examination, May 2018

B. Tech. — Sixth Semester

GERMAN-II (HM-607)

Time: 1.5 hrs.

50

Max Marks:

No. of pages: 2

Note: Attempt all questions. Marks are indicated against each question.

Q.1 Hier fehlt der bestimmte Artikel:

- a) _____ CD player
- b) _____ Stuhl
- c) _____ Lehrerin
- d) _____ Klimaanlage
- e) _____ Sofa
- f) _____ Fahrer
- g) _____ Kaffee
- h) _____ Radio
- i) _____ Fernseher
- j) _____ Wörterbuch
- k) _____ Zimmer
- l) _____ Fenster
- m) _____ Tee
- n) _____ Schwamm
- o) _____ Bleistift
- p) _____ Lampe
- q) _____ Computer
- r) _____ Tür
- s) _____ Mutter
- t) _____ Tisch

½×20

Q.2 Write 10 different W-Questions of German in "Sie" form:

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____
- f) _____
- g) _____
- h) _____
- i) _____
- j) _____

1×10

Q.3 Konjugieren Sie die Verben "HABEN" in Präteritum:

(Conjugate the verb "Haben" in past tense)

- a) Ich _____ zwei Schwestern.
- b) Er _____ einen Hund.
- c) Sarika _____ zwei Kinder.
- d) Meine Mama _____ ein Haus.
- e) Das Haus _____ vier Zimmer.
- f) Wir _____ einen Kuli.

- g) _____ Sie (formal) noch ein Wunsch?
 h) _____ du den Unterricht?
 i) Er _____ kein Zeit.
 j) Ich _____ ein Buch.

1×10

Q.4 Schreiben Sie die Zahlen:
 (Write the numerals)

1		siebentausendzweihundertsechsfünfzig
2		dreitausendzweihundertacht
3		sechszehnhunderteinundzwanzig
4		zweihundertzweiundsiebzig
5		neunhundertvierunddreißig

1×5

Q.5 Schreiben Sie Kardinal Nummer:

Nummer	Kardinal Nummer
02.09	
23.11	
04.04	
10.08	
31.08	

1×5

Q.6 Ergänzen Sie die Tabelle:
 (Fill in the table)

Personal Pronomen	Waren	heißen
ich		
er/sie/es		
wir/ Sie/sie		
du		
ihr		

1×10

End Semester Examination, May 2018

B. Tech. – Seventh / Eighth Semester

TOTAL QUALITY MANAGEMENT (HM-623)

Time: 3 hrs.

Max Marks: **100**

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

- Q.1 Answer (**any four**) of the following questions:
- a) Discuss the objectives of attaining quality in an organization.
 - b) Discuss the concept of Kaizen.
 - c) What quality circle? Discuss its concept.
 - d) Discuss the reasons to benchmark.
 - e) How is leadership important for attaining quality?
 - f) What is quality auditing? How is it important?

5x4

PART-A

- Q.2 What is TQM? Discuss the barriers to TQM implementation. **20**
- Q.3 What is Customer Retention? Discuss the various customer retention strategies with suitable examples. **20**
- Q.4 What is Six Sigma? Discuss DMAIC model of Six Sigma in detail. **20**

PART-B

- Q.5 a) What is FMEA? Discuss the types of FMEA with advantages. **10**
b) Discuss the procedure of FMEA. **10**
- Q.6 a) What is quality culture? How would you establish a quality culture in an organization? **10**
b) What are cross-functional teams? How are they important? **10**
- Q.7 What is a Quality Management System? Discuss its elements in detail. **20**

End Semester Examination, May 2018

B. Tech. – Seventh / Eighth Semester

TOTAL QUALITY MANAGEMENT (HM-623)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Each question carries equal marks.

Q.1 Answer (any five) of the following questions:

- a) Discuss the objectives of quality enhancements of products.
- b) Discuss the factors influencing customer satisfaction.
- c) What is sampling? Briefly mention about three of the sampling techniques.
- d) Discuss the benefits of quality function deployment.
- e) How does 'leadership' help in Quality Enhancement within Organizations?
- f) Discuss the concept of Quality auditing.
- g) What is the importance of documentation in TQM?

5×4

PART-A

Q.2 Define 'TQM'. Discuss some of the important barriers to achieving TQM within organizations. **20**

- Q.3**
- a) Define 'customer relationship management'. What are the potential benefits of CRM to organizations and customers? **10**
 - b) Discuss different phases of CRM. If you are a manager in business company, how would you improve CRM within your company and what steps would you suggest / take towards effective CRM. **10**

Q.4 Define 'control chart'. Discuss different types of control charts in detail. **20**

PART-B

Q.5 What is benchmarking? Discuss the process of benchmarking in detail. **20**

Q.6 What is partnering? Discuss the principles of customer / supplier relationship. **20**

Q.7 What is a quality system? Discuss its implementation process in organizations. **20**

End Semester Examination, May 2018
B. Tech. – Eighth Semester
HUMAN RESOURCE MANAGEMENT (HM-822)

Time: 3 hrs

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

- Q.1 Answer the following questions:
- a) Discuss the role and responsibilities of HR managers.
 - b) What is Induction? Discuss its importance.
 - c) Discuss the importance of pay for performance.
 - d) Discuss the role of HR in virtual organization.

5x4

PART-A

- Q.2 Define Human Resource Management. Discuss the functional scope of HRM with suitable examples. **20**
- Q.3 What is HRP? Discuss the process of HRP. **20**
- Q.4 What is Recruitment? Discuss the environmental influences on recruitment with suitable examples. **20**

PART-B

- Q.5 a) What is Training? Discuss the purpose of training program. **10**
b) What is Career Planning? Discuss the steps involved in Career Planning and Management. **10**
- Q.6 What is Compensation? How would you determine and design a compensation structure? **20**
- Q.7 a) Discuss the role of HR in knowledge industry. **10**
b) What is HR audit? Discuss its benefits. **10**

End Semester Examination, May 2018
B. Tech. – Eighth Semester
HUMAN RESOURCE MANAGEMENT (HM-822)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Each question carries equal marks.

- Q.1 Answer (any ten) of the following questions:
- a) Why HR is important management function?
 - b) What do you understand by HRC?
 - c) What is induction training?
 - d) What are the benefits of Human Resources Planning (HRP)?
 - e) What is e-recruiting?
 - f) What are the different components of salary?
 - g) What are the incentives and its types?
 - h) What are the different types of appraisal system?
 - i) What is HR audit?
 - j) What is performance management?
 - k) What do you understand by compensation? 2×10

PART-A

- Q.2
- a) Discuss the evolution of HRM.
 - b) Explain the scope and importance of HRM in industry.
 - c) What do you understand by strategic HRM?
 - d) Explain the role of HR managers. 5×4
- Q.3
- a) What do you understand by Human Resource Planning (HRP)? Explain the process. 10
 - b) How do you forecast manpower? 5
 - c) What do you understand by manpower balancing? 5
- Q.4
- a) What do you understand by recruitment and selection? 8
 - b) Explain the process of recruitment and selection. 12

PART-B

- Q.5
- a) Explain the importance of training and development in industry. 7
 - b) How do you design a training programme for a set of employees? 8
 - c) What is succession planning? 5
- Q.6
- a) What is performance management? How it is different from performance appraisal? 7
 - b) Why is compensation important? What is the basic structure of any compensation package? 8
 - c) What are incentives? Give any two incentive plans. 5
- Q.7 Write short notes on the following:
- a) HR in knowledge industry.
 - b) HR in mergers and acquisitions.
 - c) HRM in Multinational companies (MNCs).
 - d) Employee leasing. 5×4

End Semester Examination, May 2018

B. Tech. — Eighth Semester

PROJECT MANAGEMENT (HM-823)

Time: 3 hrs.

Max Marks: **100**

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **Part-A** and **TWO** questions from **Part-B**. Each question carries equal marks.

Q.1 Answer the following questions:

- What are the key objectives of project management?
- Bring out the responsibilities of project manager.
- What do you mean by project scope?
- Expand the term PERT and explain it.
- What is meant by project auditing?
- What is a Turnkey contract? When it is suitable?
- What are the parameters of project negotiations?
- List down the reason for project termination.
- What is inventory and its types?
- What is the three major forms of organizational structure?

2x10

PART-A

- Q.2 a) How are projects classified? Give example of each. **10**
b) What are the objectives of project management and discuss the project selection methods?

10

- Q.3 a) What do you mean by project appraisal? What are the various factors to be considered in technical appraisal? **12**
b) What is the importance of SWOT analysis in project appraisal? **8**

- Q.4 a) What do you mean by project monitoring? Why should we monitor a project?

8

- b) A project has a following time schedule.

Activity	Time in weeks.
1-2	2
1-3	2
1-4	1
2-5	4
3-6	8
3-7	5
4-6	3
5-8	1
6-9	5
7-8	4
8-9	3

Construct PERT network and compute:

- Total float for each activity.
- Critical path and its duration.

12

PART-B

- Q.5 a) What is organization breakdown structure? How does it help in controlling the project? **10**

b) What do you understand by the term tender? What is normally contained in tender document?

10

Q.6 a) What are the procedures and strategies for project completion and review?

10

b) What is the need for project information system? What are the requirements of a project information system? **10**

Q.7 a) Derive economic order quantity algebraically and graphically.

10

b) How do supply and transportation of materials affect the project progress?

10

End Semester Examination, May 2018

B. Tech. – Seventh / Eighth Semester

PROJECT MANAGEMENT (HM-823)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **1**

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Each question carries equal marks.

Q.1 Define the following terms:

- a) Project Management.
- b) Project Identification.
- c) Project feasibility.
- d) Project appraisal.
- e) CPM
- f) Project Inventory.
- g) Problem Statement.
- h) Project Objectives.
- i) Project Termination.
- j) Project Information System (PIS)

2×10

PART-A

- Q.2 a) Define Project. What are the characteristics of a project? **12**
b) What are the sources of project ideas? **8**

- Q.3 a) Define the qualities of a project manager? **10**
b) What is project planning? What are the various steps involved in project planning? **10**

- Q.4 Construct the network for the given activities with relevant information and find the critical path. Also, find the floats for each activity.

Activity:	1-2	1-3	2-3	2-4	3-4	4-5
Duration:	20	25	10	12	6	10

20

PART-B

Q.5 Write short notes on the following:

- a) Project organization.
- b) Project contracts.
- c) Global tenders.
- d) Project insurance.

5×4

- Q.6 a) Discuss the various sources which are required for the successful completion of a project. **10**
b) What is the procedure followed for the project termination? **10**

- Q.7 a) Write down the various steps to manage the project inventory. **10**
b) What is the objective of inventory management? **10**