

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VI COMPUTER SCIENCE & ENGINEERING-A&M : SUMMER : 2024
SUBJECT: QUANTITATIVE TECHNIQUES, COMMUNICATION & VALUES

Day : Tuesday
Date : 28/05/2024

S-23974-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat diagrams **WHEREVER** necessary.

Solve the following.

(10)

- Q.1**
- i) Express the 0.101 as fraction
a) 101/100000, b) 101/1000, c) 101/100, d) None.
 - ii) Evaluate 26% of 450 - 35% of 280
a) 19, b) 21, c) 9, d) None.
 - iii) At what rate simple interest percent per annum will a sum of money double in 16 years?
a) 1 b) 6, c) 6, d) None.
 - iv) The age of the son after six years will be three-seventh of his father. Then years ago, the ratio of their ages was 1:5. What is father's present age?
a) 40, b) 50, c) 60, d) None.
 - v) A salesman purchases an article at 9/10th of its selling price and sells it at 8% more than its selling price. Find his gain percentage.
a) 15%, b) 18%, c) 20%, d) None.
 - vi) If 15 men, working 9 hours a day, can do a work in 16 days, in how many days will 18 men do it, working 8 hours a day?
a) 10, b) 15, c) 17.5, d) None.
 - vii) A boy ran a distance 750 m in 2 minutes 30 seconds. What is the speed in km/hr. of the boy?
a) 18 km/hr., b) 20 km/hr., c) 22 km/hr., d) None.
 - viii) In how many ways can 11 players be selected from 15 players for cricket?
a) 1365, b) 1470, c) 1500, d) None.
 - ix) A bag contains 6 red and 4 yellow balls. two balls are drawn at random. Find the probability that they are of the same color.
a) 2/15, b) 4/15, c) 7/15, d) None.
 - x) What will be the difference between simple interest and compound interest at 10% per annum on a sum of Rs. 1000 after 4 years?
a) 64.1, b) 64.9, c) 65.1, d) None.

PTO

Q.2 Solve the following

Study pie-chart and answer the questions i to iv given below

(10)



- i) If the total amount that was spent in the year 2000 was 50000, then what amount that was spent on food was? (10)
a) 12000, b) 22500, c) 25000, d) None.
- ii) What is the central angle of the sector corresponding to the expenditure of housing?
a) 54° , b) 60° , c) 64° , d) None.
- iii) If the total amount that was spent in the year 2000 was 70000, the amount that was spent on teaching was
a) 7000, b) 10000, c) 14000, d) None.
- iv) What is the central angle of the sector corresponding to the expenditure of entertainment?
a) 30° , b) 32° , c) 36° , d) None.
- v) Pointing to a photograph. Bajpai said, "He is the son of the only daughter of the father of my brother." How is Bajpai related to the man in the photograph?
a) Nephew, b) Brother, c) Maternal Uncle, d) None.
- vi) It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?
a) Monday, b) Tuesday, c) Friday, d) None.
- vii) A clock starts at noon. By 10 minutes past 5, the hour hand has turned through:
a) 155° , b) 160° , c) 165° , d) None.
- viii) Insert the missing number, 1, 4, 9, 12, 17, 20, ...
a) 25, b) 27, c) 29, d) None.
- ix) Select the correct option for the given statement and conclusion.
Statements: Irregularity is a cause for failure in exams. Some regular students fail in the examinations.
Conclusions: I. All failed students are regular. II. All successful students are not regular.
a) Only conclusion I follows, b) Only conclusion II follows, c) Either I or II follows, d) Neither I nor II follows, e) Both I and II follow.
- x) One evening just before sunset two friends Sanju and Manju were talking to each other face to face. If Manju's shadow was exactly to her left side, which direction was Sanju facing?
a) North, b) South, c) West, d) None of these

- Q.3** Each question given below consists of four sentences numbered(i) to (iv). There may be an error in any part of the sentence, identify the part which has an error and write it as the correct answer. If there is no error mark the answer as (v). (10)
- i) He never, ii) has and ever will take, iii) such strong, iv) measures.
 - i) Technology, ii) must use to feed, iii) the forces, iv) of change.
 - i) Despite of their differences, ii) on matters of principles, iii) they all agree on the demand, iv) of hike is salary?
 - i) Their earnings, ii) are such that they, ii) find it difficult, iv) to make both ends to meet.
 - i) Had you been told, ii) me about your problem, iii) I would have, iv) helped you.

OR

- Q.3 Do as directed.** (10)
- Choose the word which best expresses the meaning of the word - HESITATED
i) Paused, ii) Stopped, iii) Slowed, iv) None.
 - Choose the antonym or an opposite word to the word - Loyal.
i) faithful, ii) dedicated, iii) treacherous, iv) None.
 - Choose the word which can be substituted for the sentence - Leave or remove from a place considered dangerous
i) Avoid, ii) Evade, iii) Evacuate, iv) None.
 - Choose the word which can be substituted for the sentence - One who eats everything
i) Omnivorous, ii) Omniscient, iii) Insolvent, iv) None.
 - Choose the correct word for the dotted space - I don't my new science teacher.
i) get up, ii) get on with, iii) get over, iv) None.

- Q.4** a) Write a note on each of emotional intelligence in personal and professional lives, importance, need and application. (05)
- b) Explain Soft skills and Hard skills and give five differences between them. (05)

OR

- Q.4** a) Explain in detail the time management matrix, creativity and result orientation, working under pressure stress management. (05)
- b) Define Concept, Importance and Individual and Organizational Analysis of SWOT. (05)

- Q.5** a) Write a note on ways of handling telephonic interviews and the importance of body language, grooming and etiquettes for getting the right impression in PI and GD. (05)
- b) Write a note on barriers of communication and non verbal codes in communication skills. (05)

OR

- Q.5** a) Write a note on how to build an effective resume group discussion, skills required for group discussion interview skills. (05)
- b) Write a note on Letter writing - Formal letter, Job application letter, Cover letter. (05)

- Q.6** a) Explain the Importance of Ethics and Values in the Business World. (05)
- b) Explain the Corporate grooming and dressing and etiquette in social and office settings. (05)

OR

- Q.6** a) Explain the CSR with its importance and need. (05)
- b) Explain the respect for individuality and diversity at workplace values of good manager key features of corporate etiquette. (05)