

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

Day : Thursday
Date : 30/05/2024

S-25598-2024

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

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicates full marks.
- 3) Calculator and Any Smart Gadgets are not **ALLOWED**.

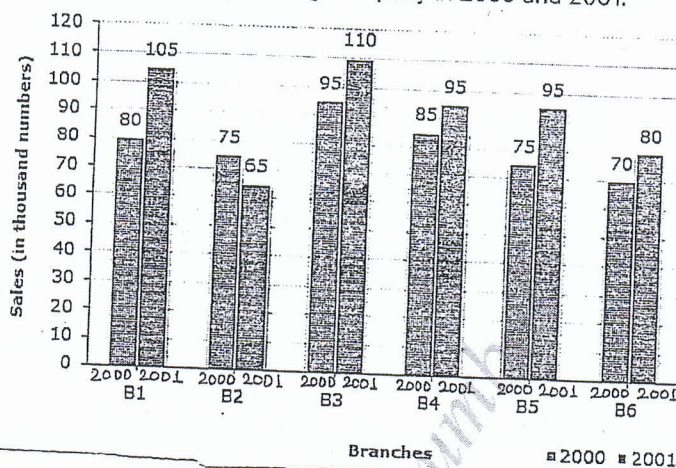
- Q.1** Solve the following questions: **(10)**
- 1) The simple interest on a certain sum of money at the rate of 5% p.a. for 8 years is Rs.840. At what rate of interest the same amount of interest can be received on same sum after 5 years?
a) 6% b) 8% c) 9% d) 10%
 - 2) Manoj invested Rs.15000 at 10% per annum for 1 year. If the interest is compound half yearly, then the amount received by Manoj at the end of the year will be:
a) Rs.16500 b) Rs.16525.50 c) Rs.16537.50 d) Rs.18150
 - 3) The sum of the ages of a father and his son is 45 years. Five years ago, the product of their ages was 34. The ages of the son and the father are respectively:
a) 9 & 36 b) 7 & 38 c) 6 & 39 d) 11 & 34
 - 4) The average of first five multiples of 7 is :
a) 42 b) 35 c) 28 d) 21
 - 5) The percentage profit earned by selling an article for Rs. 1920 is equal to the percentage-loss incurred by selling the same article for Rs. 128. At what price should the article be sold to make 25% profit?
a) Rs.2000 b) Rs.2200 c) Rs.2400 d) Data inadequate
 - 6) A and B are two stations 330 km apart. A train starts from A at 8 a.m. and travel towards B at 60 kmph. Another train starts from B at 9 a.m. and travel towards A at 75 kmph. At what time do they meet?
a) 10 A.M. b) 12 P.M. c) 11 A.M. d) 1 P.M.
 - 7) The question given below consists of a question followed by two statements. You have to study the question and the statements and decide which of the statement (s) is/are necessary to answer the question.
What is the speed of the boat in still water?
i) The boat covers a distance of 48 kms in 6 hours while running upstream.
ii) The boat covers the same distance in 4 hours while running downstream.
a) I alone sufficient while II alone not sufficient to answer
b) II alone sufficient while I alone not sufficient to answer
c) Either I or II alone sufficient to answer
d) Both I and II are not sufficient to answer
e) Both I and II are necessary to answer
 - 8) In what ratio must a grocer mix two varieties of tea worth Rs. 60 a kg and Rs.65 a kg so that by selling the mixture at Rs. 68.20 a kg he may gain 10%?
a) 3:2 b) 3:4 c) 3:5 d) 4:5
 - 9) What is the probability of getting a sum 9 from two throws of a dice?
a) 1/8 b) 1/12 c) 1/6 d) 1/9
 - 10) A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With the help of C, they did the job in 4 days only. Then, C alone can do the job in:
a) $9\frac{1}{5}$ Days b) $9\frac{2}{5}$ Days c) $9\frac{3}{5}$ Days d) 10 Days

P.T.O.

Q.2

The bar graph given below shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001 (10)

Sales of Books (in thousand numbers) from Six Branches - B1, B2, B3, B4, B5 and B6 of a publishing Company in 2000 and 2001.



- 1) What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?
 - a) 2:3
 - b) 3:5
 - c) 4:5
 - d) 7:9
- 2) Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?
 - a) 68.54%
 - b) 71.11%
 - c) 73.17%
 - d) 75.55%
- 3) What is the average sales of all the branches (in thousand numbers) for the year 2000?
 - a) 73
 - b) 80
 - c) 83
 - d) 88
- 4) Pointing towards a girl, Abhisek says, "This girl is the daughter of only child of my father." What is the relation of Abhisek's wife to that girl?
 - a) Daughter
 - b) Mother
 - c) Aunt
 - d) Sister
- 5) If A+B means B is the brother of A; AxB means B is the husband of A; A-B means A is the mother of B and A% B means A is the father of B, which of the following relations shows that Q is the grandmother of T?
 - a) Q-P+R%T
 - b) P x Q % R - T
 - c) P x Q % R + T
 - d) P + Q % R - T
- 6) On what dates of April, 1997 did TUESDAY fall?
 - a) 1st, 8th, 15th, 22nd, 29th
 - b) 2nd, 9th, 16th, 23rd, 30th
 - c) 3rd, 10th, 17th, 24th
 - d) 4th, 11th, 18th, 25th
- 7) If TRANQUIL is coded as 20181141721912, then PERPLEX will be coded as:
 - a) 7597356
 - b) 165181612524
 - c) 161514131211
 - d) 161718191112
- 8) A man walks 5 km towards south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?
 - a) West
 - b) South
 - c) North-East
 - d) South-West

...4...

- a) What are the team dynamics? Discuss the challenges of Team building? (05)
- b) How one should avoid stress? Justify your answer with pareto principle and discussing time management matrix. (05)

- Q.5**
- a) What do you understand by the term communication skills? What should one do to enhance his/her LSRW skills? (05)
 - b) What does Group Discussion provide to recruiters? Discuss in detail the reasons of Failure in GD (05)

OR

- a) Presentation skills are the need of today's professional world. How one can make proper structure and flow of a presentation? (05)
 - b) Discuss the principles of interviewing. What the general preparation is required to achieve success in the interview? (05)
- Q.6**
- a) What is meant by business ethics? How will they help to become a professional? (05)
 - b) What role does diversity and inclusion play at workplace? (05)

OR

- a) Explain what is meant by Corporate Social Responsibility (CSR) and discuss its implication for management. (05)
- b) Why is the professional behaviour and grooming important at the workplace? Illustrate. (05)

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