

BACHELOR OF BUSINESS ADMINISTRATION (CBCS - 2018 COURSE)
B.B.A. Sem-I : WINTER : 2024
SUBJECT: FOUNDATION OF MATHEMATICS & STATISTICS

Day : Friday
Date : 20/12/2024

W-18811-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N. B. :

- 1) Attempt ANY THREE questions from Section – I and attempt ANY TWO questions from Section – II.
- 2) Figures to the right indicate FULL marks.
- 3) Use of graph papers WHEREVER necessary.
- 4) Use of non-programmable calculator is ALLOWED.
- 5) Answers to both the sections should be written in SAME answer book.

SECTION – I

Q. 1 Define Partnership. Explain advantages of partnership in business. (12)

Q. 2 a) Vihan purchases a laptop for Rs. 80,000. He sold it later for Rs. 45,000. Find loss percentage. (06)

b) Expand the determinant: (06)

$$\begin{vmatrix} 3 & 4 & 5 \\ -1 & 1 & -2 \\ 2 & 1 & 3 \end{vmatrix}$$

Q. 3 a) Compute the amount of Rs. 8,000 after 5 years at 7 % p. a. simple interest. (06)

b) Find the compound interest on Rs. 24,000 at 5 % p.a. for 7 years. (06)

Q. 4 Find the amount of an ordinary annuity of Rs. 65000 per annum for 5 years at the rate of interest of 7 % per period. (12)

Q. 5 Write short notes on ANY TWO of the following: (12)

- a) Brokerage
- b) Frequency distribution
- c) Stocks and Shares

SECTION – II

Q. 6 Draw histogram and frequency curve for the data given below: (12)

Marks	0– 100	100 – 200	200 – 300	300 – 400	400 – 500
No. of Students	70	65	87	55	25

P. T. O.

Q.7 Explain the concept payroll. Write the significance of payroll in an organisation. (12)

Q.8 The net salary of Sita is calculated as below: (12)

Net Salary = Basic + DA + HRA + TA + Special Allowance – Deductions

Ms. Sita gets Rs. 35,000 as her basic salary. She gets DA at 25 % of basic pay, HRA 10 % of basic pay. She was allowed Rs. 10,000 towards travelling allowance (T.A.). She did not get any special allowance that month, whereas Rs. 14,000 towards housing loan and Rs. 4,000 towards income tax were deducted. What is her net salary?

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