

BACHELOR OF SCIENCE (INFO. & TECH.)-CS Examination
BSCIT CS SEMESTER-1 JANUARY 2026 (NEP) JANUARY - 2026
MATHS. & STAT. FOUNDATION OF COMPUTER SCIENCE

Faculty Code : 017

Subject Code : 24CS-BSIT-SE-01-01006

Time : 1 Hours]

[Total Marks : 25

Q.1 Attempt any two of the following.

10

(1) Solve using Cramer's method $2x + 3y - z = 5$, $-x + 4y + 2z = 6$, and $3x - y + z = 4$.(2) Find $A \times B$

$$A = \begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{vmatrix}$$

$$B = \begin{vmatrix} 9 & 8 & -7 \\ -6 & 5 & 4 \\ 3 & -2 & 1 \end{vmatrix}$$

$$(3) A = \begin{vmatrix} 1 & 2 & 3 \\ 0 & 4 & 5 \\ 1 & 0 & 6 \end{vmatrix}$$

Find adj. A

(4) Find the inverse of matrix

$$A = \begin{vmatrix} 2 & 1 & 3 \\ 1 & 0 & 2 \\ 4 & 1 & 8 \end{vmatrix}$$

10

Q.2 Attempt any two of the following.

(1) Calculate range and coefficient of range from following data.

X	10	15	20	25	30	35	40
F	6	9	13	15	9	8	1

(2) Calculate mean, median and mode for the following data. Class

Class	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	5	9	10	11	9	8	6	2

(3) Calculate mean, median and mode for the following data.

X	10	20	30	40	50	60	70
F	12	18	22	30	18	16	10

(4) Calculate range, coefficient of range and quartile deviation.

Class	25-35	35-45	45-55	55-65	65-75	75-85	85-95	95-105
Frequency	5	9	10	11	9	8	6	2

Q.3 Attempt any one of the following.

5

- (1) The third term of an Arithmetic progression is 12 and the sixth term is 42. Find twenty terms and sum of 12 terms.
- (2) Find the sum of n terms $8+88+888+888+ \dots +n$

∴ END OF EXAM ∴

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