



K25U 3420

Reg. No. : .....

Name : .....

**First Semester B.Com./B.Com. Logistics Degree (CBCSS – OBE –  
Supplementary) Examination, November 2025**

**(2019 to 2023 Admissions)**

**GENERAL AWARENESS COURSE**

**1A11COM : Business Statistics and Basic Numerical Skills**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

Answer **any six** questions. **Each** question carries **1** mark.

1. State the limitations of statistics.
2. What do you mean by classification of data ?
3. Define skewness.
4. What is quantity index number ?
5. State the meaning of zero matrix.
6. From the following find the determinant of matrix X

$$X = \begin{vmatrix} 2 & 3 & 1 \\ -1 & 2 & 3 \\ 3 & 2 & -1 \end{vmatrix}$$

7. Write in words the following set notations

i)  $A \not\subset B$

ii)  $X \subseteq Y$

8. Write down all the subsets of the set  $A = \{a, b, c\}$ .

**(6×1=6)**

**SECTION – B**

Answer **any six** questions. **Each** question carries **3** marks.

9. State the requisites of a good table.
10. Discuss the various uses of median.
11. From the following find mean deviation.

| Classes   | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 |
|-----------|--------|---------|---------|---------|---------|---------|
| Frequency | 15     | 19      | 14      | 20      | 18      | 14      |

P.T.O.



12. What are the uses of index numbers ?
13. Explain the methods of constructing index numbers.
14. Calculate index number using :
  - a) Laspeyre's and
  - b) Paasche's methods

| Commodity | 2023  |          | 2024  |          |
|-----------|-------|----------|-------|----------|
|           | Price | Quantity | Price | Quantity |
| A         | 20    | 8        | 40    | 6        |
| B         | 50    | 10       | 60    | 5        |
| C         | 40    | 15       | 50    | 15       |
| D         | 20    | 20       | 20    | 25       |

15. Find the adjoint of a matrix  $A = \begin{bmatrix} 1 & -1 & 2 \\ 4 & 0 & 6 \\ 0 & 1 & -1 \end{bmatrix}$
16. Using the following sets, verify that  $A \cup (B \cap C) = (A \cup B) \cap C$

$$A = \{1, 2, 3\}, B = \{2, 4, 6\}, C = \{3, 4, 5\}.$$

(6×3=18)

## SECTION – C

Answer any two questions. Each question carries 8 marks.

17. From the following calculate :

- a) SD
- b) Coefficient of SD and
- c) Coefficient of variation

| Marks        | Number of students |
|--------------|--------------------|
| 1-3          | 40                 |
| 3-5          | 30                 |
| 5-7          | 20                 |
| 7-9          | 10                 |
| <b>Total</b> | <b>100</b>         |

18. Solve the simultaneous equations  $2x - 3y = 7$ ,  $2x + y - z = 1$ ,  $4y + 3z = -11$ .
19. What is set theory ? Explain the basic set operations with examples. (2×8=16)