



K24U 4084

Reg. No. : .....

Name : .....

First Semester B.Com./B.Com. Logistics Degree (C.B.C.S.S. – O.B.E. –  
Supplementary/Improvement) Examination, November 2024  
(2019 to 2023 Admission)

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.

(6×1=6)

1. What is a Determinant ?
2. What is frequency distribution ?
3. What are the precautions to be taken while using secondary data ?
4. State the commonly used three averages.
5. Find the median for the following data :  
4, 25, 45, 15, 26, 35, 55, 28, 48.
6. Compute Geometric mean.  
57.5, 87.75, 53.5, 73.5, 81.75.
7. What is diagonal matrix ?
8. Define Standard Deviation.

P.T.O.



## SECTION – B

Answer **any 6** questions. **Each** question carries **3** marks.

(6×3=18)

9. State some important functions of statistics.
10. What are the properties of Transpose ?
11. Out of 2400 students who appeared for B. Com. degree Examination, 1500 failed in Numerical skill, 1200 failed in Accountancy and 1200 failed in informatics, 900 failed in both Numerical skills and Accountancy, 800 failed in both Numerical skills and informatics, 300 failed in Accountancy and Informatics, 40 failed in all subjects. How many students passed in all three subjects ?

12. Solve the equation

$$2 \begin{bmatrix} x & y \\ z & t \end{bmatrix} + 3 \begin{bmatrix} 1 & -1 \\ 0 & 2 \end{bmatrix} = 5 \begin{bmatrix} 3 & 5 \\ 4 & 6 \end{bmatrix}$$

13. Two third of a number decreased by 2 equals 4. Find the number.

14. Calculate Mode.

Size :	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30
Frequency	20	24	32	28	20	26

15. Find Harmonic Mean :

Size :	6	10	14	18
F	20	40	30	10

16. Compute Standard Deviation.

4, 8, 10, 12, 15, 9, 7, 7.



SECTION – C

Answer any 2 questions. Each question carries 8 marks.

(2×8=16)

17. Solve the equation by using matrix.

$$x - y + z = 4$$

$$2x + y - 3z = 0$$

$$x + y + z = 2$$

18. Solve  $4x + 2y - 3z = 2$ ,  $3x + 4y - 2z = 10$  and  $2x - 5y = 5$  using simultaneous equation method.

19. The following data relates to the prices and quantities of 4 commodities in the years 2018-19 and 2021-22. Construct the index numbers of price for the year 2021-22 by using 2018-19 the base year by :

- i) Laspeyre's method,
- ii) Paasche's method,
- iii) Fisher's ideal method:

Commodity	2018-19		2021-22	
	Price (in ₹) $p_0$	Quantity $q_0$	Price (in ₹) $p_1$	Quantity $q_1$
A	5	100	6	150
B	4	80	5	100
C	2.5	60	5	72
D	12	30	9	33