



K23U 4043

Reg. No. : .....

Name : .....

I Semester B.Com. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, November 2023  
(2019 Admission Onwards)  
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. Define Statistics.
2. What is Range ?
3. What do you mean by Index Number ?
4. What is Crammers Rules ?
5. What is Set Theory ?
6. What is Null Matrix?
7. Calculate mode, if the mean and median are respectively 28 and 24.
8. Skewness is 1.59, its mean is 148 and mode 112, find the standard deviation.

(6×1=6)

SECTION – B

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

9. What are the functions of Statistics ?
10. What are the problems in constructing Index Numbers ?

P.T.O.



11. Explain the characteristic of a good average.
12. Sharers of two companies have the following data :

	Company A	Company B
<b>Mean</b>	15	20
<b>Standard Deviation</b>	5	8

- i) Which company's share is more stable ?
- ii) Which company's share is speculative ?
13. An aeroplane covers four sides of a square at speeds of 100, 200, 300, and 400 km per hour respectively. What is the average speed of the Plane ?
14. Find Quartile Deviation  
48, 18, 20, 24, 27, 30, 55.
15. Find the value of the determinant of the Matrix

$$A = \begin{vmatrix} 4 & 7 & 8 \\ -9 & 0 & 0 \\ 2 & 3 & 4 \end{vmatrix}$$

16. Ravi obtained 70 and 75 marks in the first two-unit tests. Find the minimum marks he should get in the third test to have an average of at least 60 marks.

(6×3=18)

## SECTION – C

Answer any two questions. Each question carries 8 marks.

17. From the following data compute the arithmetic averages of wages :

Wages	Below 10	Below 20	Below 30	Below 40	Below 50	Below 60	Below 70	Below 80
No. of workers	4	16	40	76	96	112	120	125



18. Compute

- i) Laspeyre's
- ii) Paasche's and
- iii) Fisher's index numbers from the following data :

Commodity	2012		2022	
	Price	Quantity	Price	Quantity
A	5	100	6	150
B	4	80	5	100
C	2.5	60	5	72
D	12	30	9	33

19. Solve the system of equation  $2x - 3y = 1$  and  $3x - 4y = 1$ .

(2×8=16)

