Reg. No. : ....

Name : ....

I Semester B.Com. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, November 2022
(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. What is a Universal Set ?

2. Define Statistics.

3. What is Tabulation ?

4. State the different types of averages.

5. What is Mean deviation ?

6. Calculate A.M.

Below 10	5
10 – 20	12
20 – 30	14
30 – 40	10
Above 40	8

7. Define Index numbers.

8. What is the median of : 3, 6, 7, 8, 11, 15 ?

(6×1=6)

P.T.O.

SECTION – B

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

9. State the difference between Primary data and Secondary data.

10. Explain the merits and demerits of Standard Deviation.

11. Find the matrix A, so that the following equality is satisfied.

$$A + \begin{bmatrix} 2 & 3 \\ -4 & 1 \end{bmatrix} = \begin{bmatrix} 5 & -1 \\ 1 & 5 \end{bmatrix}$$

12. Solve $4(x - 2) + 5(x - 3) - 25 = x + 8$.

13. A man sells 7 horses and 8 cows at Rs. 2,940/- and 5 horses and 6 cows at Rs. 2,150/-. What is the selling price of each ?

14. Among 60 people, 35 can speak in English, 40 in Malayalam and 20 can speak in both the languages. Find the number of people who can speak atleast one of the languages. How many cannot speak in any of these languages ?

15. Let $A = \begin{bmatrix} 1 & 2 & 3 \\ -2 & 1 & 4 \end{bmatrix}$ $B = \begin{bmatrix} 2 & 3 & 1 \\ 5 & 4 & 2 \\ 1 & 5 & 3 \end{bmatrix}$. Compute AB.

16. Compute Quartile deviation.

x	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
f	5	12	15	9	10	3

(6×3=18)

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SECTION – C

Answer **any 2** questions. **Each** question carries **8** marks.

17. Compute Laspeyre's, Paasche's, Marshall – Edgeworth, Dorbish – Bowley and Fisher's Index numbers from the following data.

Items	Base Year		Current Year	
	Price	**Expenditure**	**Price**	**Expenditure**
A	50	100	60	180
B	40	120	40	200
C	100	100	120	12
D	20	80	25	100

18. The following is the marks obtained by 140 students in a college. Find the median marks.

Marks	Number of Students
10 – 19	7
20 – 29	15
30 – 39	18
40 – 49	25
50 – 59	30
60 – 69	20
70 – 79	16
80 – 89	7
90 – 99	2

19. Find out S.D.

Production in tones :	50	100	125	150	200	250	300
No. of factories :	2	5	7	12	9	5	3

(2×8=16)

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