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## I Semester B.B.A.(A.M) Degree Examination, August - 2021 BUSINESS ADMINISTRATION

Quantitative Techniques for Management - I (CBCS Semester Scheme 2019-20 Fresh)

Paper: 1.5

Time: 3 Hours

Maximum Marks: 70

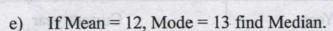
Instructions to Candidates: Many political and Many Services has the Many services

Answer should be written in English only.

## SECTION - A drawing stab add most about build

Answer any Five sub-questions. Each sub-question carries Two marks. (5×2=10)

- 1. a) What do you mean by Natural Numbers?
  - b) Find LCM of 16, 24 and 36.
  - c) What is Matrix?
- d) If  $A = \begin{bmatrix} 4 & 2 \\ 6 & 4 \end{bmatrix}$ ,  $B = \begin{bmatrix} 8 & 4 \\ 6 & 2 \end{bmatrix}$  Find A+B.



- f) What is Histogram?
- g) What is Base Year?



## **SECTION - B**

Answer any Three questions. Each question carries Six marks.

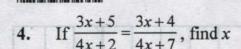
 $(3 \times 6 = 18)$ 

- 2. If  $A = \begin{bmatrix} 4 & 2 \\ 6 & 4 \end{bmatrix}$ ,  $B = \begin{bmatrix} 8 & 4 \\ 6 & 2 \end{bmatrix}$  show that AB = BA.
- 3. From the following data of marks obtained by 50 mathematics students, obtain the mean marks.

Marks	20	30	40	50	60	70	80	90
No. of Students	2	5	8	12	1.3	6	2	2

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Compute standard deviation from the following data. 5.

X	3	4	5	6	7	8	9
f	3	9	11	7	14	12	4

## SECTION-C

Answer any Three questions. Each question carries Fourteen marks. (3×14=42)

Solve 3x+7y=13 and 5x-2y=8 by Elimination method. (7) 6. a)

Solve by Cramer's Rule. 6x+5y=2, 4x-3y=14. b)

Find mode from the data given below. Also locate graphically. 7.

Wages (Rs.)	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of workers.	12	32	38	65	45	25	18

Calculate Bowley's Coefficient of skewness from the following data. 8.

Wages (Rs.)	55-58	58-61	61-64	64-67	67-70
No. of workers.	12	17	23	18	10

Calculate Fisher's ideal index number for the following data and verify both. TRT and 9. FRT tests.

Commodity	Ba:	se Year band band	Current year		
	Price	Quantity	Price	Quantity	
A	10	49	12	50	
В	12	25	15	20	
C	18	10	20	12	
D	20	5	40	yms TavenA	
Е	22	8	45	5	

