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Roll No.

BBA-I Sem.

19003

B.B.A. Examination, December-2025

(Under NEP)

Business Statistics and Logic

(BBA-1004)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Answer all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. $5 \times 3 = 15$

1. Explain 'more than' and 'less than' frequency series.
2. What are the main limitations of statistics?
3. The deviation of six numbers from assumed mean 10 are as follows. What are the numbers and what is the value of their mean:

-4 +2 -3 +1 0 +10

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4. Write from limitations of statistics.
5. Define Arithmetic Mean.

Section-B

(Short Answer Questions)

Note : Answer any two questions out of the following three questions. Each question carries 7.5 marks.

Short answer is required not exceeding 200 words. $2 \times 7.5 = 15$

6. Calculate Geometric Mean from the following data:

10, 17, 29, 95, 95, 100, 175, 250, 750

7. Calculate Range and Coefficient of Range :

46, 32, 17, 41, 4, 20, 6, 9, 30, 35.

8. For a distribution based on 200 observations, partly reproduced below, mean is 1.46. Find the missing frequencies :

No. of Accidents:	0	1	2	3	4	5
Frequency:	46	?	?	25	10	5

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Section-C

(Detailed Answer Questions)

Note : Attempt any three questions out of the following five questions. Each question carries 15 marks.

Answer is required in detail. $3 \times 15 = 45$

9. Calculate the coefficient of correlation between birth rate and death rate from the following data :

Birth Rate :	24	26	32	33	35	30
Death Rate :	15	20	22	24	27	24

10. Explain the method of concurrent deviations for computing the correlation between two variable series.

11. The following informations are given to you :

	X	Y
Mean	20	100
S.D.	15	20

coefficient of correlation between X and Y = + 0.8

Find out the most probable value of Y, if X is 30 and most probable value of X, if Y is 90.

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12. A bag contains 4 white, 2 black, 3 yellow and 3 red balls. What is probability of getting a white or red ball at random in a single draw of one ball?
13. Give the classical definition of probability and state its limitations.