



0433/3056/1615/1715

IV Semester 5 Year B.B.A. LL.B./B.Com. LL.B./III Semester 5 Year B.B.A. LL.B./  
B.Com. LL.B. Examination, January/February 2026 (Odd Sem.)

**BUSINESS STATISTICS**

Duration : 3 Hours

Max. Marks : 100

- Instructions :
1. Answer Q. No. 9 and any five of the remaining questions.
  2. Q. No. 9 carries 20 marks and the remaining questions carry 16 marks each.
  3. Answers should be written in English completely.
  4. Use simple calculator only.

Q. No. 1. Define Statistics. Explain the scope of statistics.

Marks : 16

Q. No. 2. Calculate mean, median and mode for the following data.

Marks : 16

Marks	20	30	40	50	60	70
No. of Students	8	12	20	10	6	4

Q. No. 3. Calculate Karl Pearson's coefficient of Skewness.

Marks : 16

Classes	Frequency
0 - 10	12
10 - 20	18
20 - 30	28
30 - 40	26
40 - 50	16

Q. No. 4. Calculate standard deviation and co-efficient of variation for the following data.

Marks : 16

Class Interval	Frequency
0 - 5	3
5 - 10	6
10 - 15	9
15 - 20	8
20 - 25	5
25 - 30	7

Q. No. 5. From the following data, prove Fisher's ideal index number satisfies Time Reversal Test (TRT) and Factor Reversal Test (FRT) and also calculate Fisher's price index numbers.

Marks : 16

Items	Base Year		Current Year	
	Price	Quantity	Price	Quantity
Food	5	20	10	15
Transportation	6	25	8	20
Clothing	8	10	15	14
Others	10	12	20	6

P.T.O.

0433/3056/1615/1715



Q. No. 6. Calculate the coefficient of correlation from the following data by Spearman's rank correlation method only. Marks : 16

Price of Tea (Rs.)	75	88	95	70	60	80	81	50
Price of Coffee (Rs.)	120	134	150	115	110	140	142	100

Q. No. 7. What do you mean by dispersion ? Explain the various measures of dispersion with its merits and demerits. Marks : 16

Q. No. 8. Write short notes on **any two** of the following. Marks : 2x8=16

- (a) Primary data and its methods
- (b) Limitations of statistics
- (c) Skewness.

Q. No. 9. Solve **any two** of the following problems. Marks : 2x10=20

(a) Draw Histogram and locate mode for the following data :

Class	Frequency
0 – 10	2
10 – 20	10
20 – 30	40
30 – 40	20
40 – 50	15

(b) Draft a blank table showing the population of a town according to

- (i) Sex
- (ii) Religion (Hindu, Muslim, Christian)
- (iii) Years – 2018, 2019

(c) Calculate Median for the following data.

Class Intervals	No. of Students
10 – 19	8
20 – 29	12
30 – 39	30
40 – 49	28
50 – 59	40