

# BBA-05

## December - Examination 2025

### BBA (I<sup>st</sup> Year) Examination

#### BUSINESS STATISTICS

#### Paper : BBA-05

[Time: 3 Hours ]

[ Maximum Marks: 70]

**Note :-** The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

#### Section-A

7×2=14

#### (Very Short Answer Type Questions)

**Note :-** Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) State two functions of Statistics.
- (ii) What is Census Investigation?
- (iii) If difference between the two quartiles is 16, their sum is 38 and median is 24. Calculate the Coefficient of Skewness.
- (iv) State the Fisher's formula of Time Reversal Test.
- (v) State four limitations of Diagrammatic Representation.
- (vi) Define Interpolation.
- (vii) Explain the meaning of Mutually Exclusive Events.

#### Section-B

4×7=28

#### (Short Answer Type Questions)

**Note :-** Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **7** marks.

2. Define Classification. Explain different methods of Classification according to Attributes.
3. Calculate Median from the following data -

Wages in ₹	No. of Employees
0-5	05
5-10	08
10-15	10
15-20	09
20-25	08

4. Explain clearly the procedure of calculating first four moments about the Mean.
5. From the following data, calculate Coefficient of Correlation between x and y series.

x	y
180	200
270	300
320	500
480	600
750	900

6. What do you understand by Probability? Explain the addition and multiplication theorems of Probability.
7. Differentiate between Interpolation and Extrapolation. State the underlying assumptions of Interpolation.
8. Define Index Numbers and mention its uses.
9. The following information is related to two distributions, state which distribution is more skewed -

	<b>Distribution I</b>	<b>Distribution II</b>
Mean	100	90
Median	95	95
Standard Deviation	10	10

**Section-C**

**2×14=28**

**(Long Answer Type Questions)**

**Note :-** Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. From the following data, calculate the two Regression Equations and find out the value of Coefficient of Correlation -

<b>x</b>	<b>y</b>
3	9
4	11
6	14
7	15
10	16

11. What is Trend? How would you find out the trend values by the method of Least Squares? Illustrate by example.
12. Goals scored by two teams A and B in a football match during a season were as follows -

<b>No. of Goals Scored in a Match</b>	<b>No. of Matches</b>	
	<b>A</b>	<b>B</b>
00	27	17
01	09	09
02	08	06
03	05	05
04	04	03

Find which team may be considered more consistent?

13. Write explanatory notes on the following -
  - (a) Weighted Average
  - (b) Standard Deviation
  - (c) Attribute
  - (d) Tabulation of Data