

11. Why Fisher's index number is called Ideal Index Number ?
12. Distinguish between the concepts of correlation and association of attributes.
13. Explain :
- (i) Equally likely events
  - (ii) Trend analysis
  - (iii) Newton's method of advancing difference
  - (iv) Coefficient of variation

## **BBA-05**

**June – Examination 2024**

### **BBA (Ist 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) What do you mean by Census method of data collection ?
- (ii) State *two* main functions of Statistics.

- (iii) Name the components of a Time Series.
- (iv) Write down the expression of  $y_3$  under Langrange's method.
- (v) Write down formula of Regression Equation of  $x$  on  $y$ .
- (vi) Explain mutually exclusive events.
- (vii) Give *one* example of inclusive and exclusive series each.

**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. What is the difference in histogram and frequency curve ?
- 3. Define Median and Mode.
- 4. If the variance of a series is 144 and the arithmetic average is 50, find out the coefficient of variation.
- 5. Explain unit of collection.
- 6. Calculate Karl Pearson's skewness : Given  $M = 62.5$ ,  $Z = 80$ ,  $\Sigma X = 550$ ,  $N = 10$ .
- 7. What do you mean by Mesokurtic Curve and Lepto-kurtic Curve ?

- 8. Explain the difference between one dimensional and two dimensional diagrams.
- 9. Two dice are thrown then what will be the probability of the total of at least 7 ?

**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. Calculate mode, median and arithmetic mean from the following data :

<b>Articles Produced</b>	<b>No. of Persons</b>
0-5	3
5-10	5
10-20	8
20-30	9
30-45	15
45-60	20
60-75	10
75-100	2