

**S-893**

**Total Pages : 4**

**Roll No. -----**

**BBA-302**

**Business Statistics**

**Bachelor of Business Administration (BBA)**

**3<sup>rd</sup> Semester, Examination 2022(Dec.)**

**Time: 2 Hours**

**Max. Marks: 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

**Section – A**

(Long Answer – type questions)

**Note:** Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. What is Frequency and Frequency Distribution?  
Discuss terms associated with Frequency distribution.
- Q.2. Explain advantages and disadvantages of Arithmetic mean, Geometric mean and Harmonic mean.
- Q.3. Elaborate types of measures of dispersion.
- Q.4. What is Karl Pearson's coefficient of correlation?  
Explain its Direct Method and Shortcut Method, and states its assumption.
- Q.5. Construct index number of price from the following data by applying:
- i. Laspeyres' Method,
  - ii. Paasche's Method,

Commodities	1990		2000	
	Price	Quantity	Price	Quantity
A	2	8	4	6
B	5	10	6	5
C	4	14	5	10
D	2	19	2	13

## Section – B

### (Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

$$[4 \times 8 = 32]$$

Q.1. What is Tabulation? Explain its aims and advantages.

Q.2. Calculate arithmetic mean of the wages from the following data:

Wages (in Rs.)	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Workers	15	15	23	22	25	10	5	10

Q.3. Define Scatter diagram.

Q.4. What is Variance? Explain.

P.T.O.

- Q.5. What is Regression. State properties of regression coefficient.
- Q.6. Explain meaning of Standard Error, standard error formula and standard error of estimate.
- Q.7. Explain Growth rate in Time series.
- Q.8. What is the difference between Price index and Quantity index.

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