UNIT – IV

8. Obtain the Laspeyre's, Fisher's and Marshall-Edgeworth price index number from the following data :

Commodity	p_0	q_0	p_1	q_1
A	8	25	65	30
B	20	70	30	55
C	5	16	20	45
D	10	36	15	20
E	27	80	10	60

Also show that Fisher's index satisfies factor reversal test.

9. Explain the use of time series in business forecasting and its limitations. Describe the components of a time series.

Roll No. .....

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BBA 2nd Semester (N. S.) 2014-17 Examination – July, 2022

BUSINESS STATISTICS

Paper : BBAN-206

Time : Three Hours] *[Maximum Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt ***compulsory*** Question No. 1 from Section-**A** and ***four*** questions from Section-**B** (***one*** question from each Unit). All questions carry equal marks.

SECTION – A

1. Write brief notes on :

   (a) Histogram

   (b) Advantages of diagrams

   (c) Co-efficient of range

(d) Harmonic mean

(e) Equation of Y on X

(f) Co-efficient of determination

(g) Unweighted price index numbers

(h) Time reversal test

SECTION – B

UNIT – I

2. Discuss the scope, limitations and applications of statistics.

3. Differentiate between classification and tabulation. Discuss the objectives and types of classification.

UNIT – II

4. Explain the meaning and objectives of an average. Discuss the calculation, merits and demerits of arithmetic mean, median and mode.

5. Find the values of quartile deviation, mean average deviation (from median) and standard deviation from the following data showing the money spent every date by 15 students :

56, 48, 43, 65, 78, 72, 46, 38, 82, 39, 57, 63, 75, 62, 49

UNIT – III

6. Discuss the meaning, types and significance of correlation. What are the differences between Karl Pearson's correlation co-efficient and spearman's correlation co-efficient ?

7. From 10 observations of price (X) and supply (Y) of a commodity, the following figures were obtained :

$\Sigma X = 130, \Sigma Y = 220, \Sigma X^2 = 2288, \Sigma Y^2 = 5506$ and $\Sigma XY = 3467$.

Obtain the two regression equations from the above figures.