

9702

**B.B.A. LL.B. (Hons) 5 Year Course 2nd Semester  
(wef May-18) Examination, May-2018  
STATISTICAL ANALYSIS**

**Paper-1513**

**Common with B.A. LL.B (Hons) 5 Year Course  
1st Semester**

***Time allowed : 3 hours] [Maximum marks : 80***

***Note : Attempt four questions from Section-A (one from each unit) and one compulsory question from Section-B.***

**Section-A**

***Unit-I***

1. Discuss the objectives, types and advantages of classification. 14
2. Using suitable examples, illustrate the construction of (i) Simple bar diagram, (ii) Multiple bar diagram and (iii) Range graph. 14

***Unit-II***

3. Discuss the calculation, merits and demerits of arithmetic mean, median and mode. 14
4. Find the values of co-efficient of quartile deviation and co-efficient of variation for the following distribution :

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
f	10	40	150	175	75	25	15	10

14

***Unit-III***

5. Explain the meaning, types and significance of correlation. What are the properties of Karl Pearson's co-efficient of correlation ? 14

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6. Obtain the two regression equations from the following data : 14

Age	56	42	36	47	49	52	60	72	63	55
Blood pressure	147	125	118	128	145	140	155	160	149	150

#### Unit-IV

7. What are the advantages and limitations of time series analysis? Describe the components of a time series. 14
8. Compute Laspeyre's, Paasche's Fisher's and Dorfish and Bowley's price index numbers from the following data :

Commodity	$P_0$	$Q_0$	$P_1$	$Q_1$
A	20	8	40	6
B	50	10	60	5
C	40	15	50	15
D	20	20	20	25

#### Section-B

9. (a) Discuss the scope of statistics.  $8 \times 3 = 24$
- (b) What are the advantages of diagrams?
- (c) Find the harmonic mean of 20 and 30.
- (d) What are the merits and demerits of range?
- (e) What is co-efficient of determination?
- (f) If  $b_{yx} = -0.8$  and  $b_{xy} = -0.45$ , what is the value of  $r$ ?
- (g) What are the limitations of moving average method?
- (h) Explain and illustrate factor reversal test.