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-efficeint of correlation ?   14

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. Comput 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	p_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.   8×3=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 valve of r_{yx} ?

    (g) What are the limitations of moving average method?

    (h) Explain and illustrate factor reversal test.