

Seat No.	
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B.Com. (Part - II) (Semester - III) Examination, April - 2017

BUSINESS STATISTICS (Paper - I)

Sub. Code : 63110

Day and Date : Monday, 24 - 04 - 2017

Total Marks : 50

Time : 12.00 noon to 2.00 p.m.

- Instructions :**
- 1) Attempt any FIVE questions.
 - 2) Figures to the right indicate full marks.
 - 3) Use of non-programmable calculator is allowed.
 - 4) Graph paper will be supplied on request.

Q1) a) Explain primary data and Secondary data. Give an example of each.

b) State the empirical relation between mean and median and mode. Use it to find Mean, if Median is 40 and Mode is 44.

[10]

Q2) State the relation between correlation coefficient and regression coefficients and verify them by using following data.

[10]

X	2	3	4	7	6
Y	10	7	3	1	2

Q3) Define combined mean and combined S.D. for two groups. The Mean and S.D. of 100 items was found to be 65 and 10 respectively. Another group of 50 items with each value equal to 59. Find mean and variance of combined group of 150 items.

[10]

Q4) Define the terms population and sample. Give an example of each. State the advantages of sampling method over census method.

[10]

P.T.O.

Q5) State the equations of regression lines. From 10 observations on price (X) and supply (Y) of a commodity, the following data were obtained.

$$\sum X = 130, \sum Y = 220, \sum X^2 = 2288, \sum XY = 3467$$

Compute the equation of line of regression of supply on price and estimate the supply when price is 16 units. [10]

Q6) State the requirements of a good averages. Define mean and median. Find mean and median for the following data. [10]

Wage in Rs.	30-40	40-50	50-60	60-70	70-80
No. of workers	9	13	25	11	7

Q7) a) Interpret, if (i) $r = + 1$, (ii) $r = -1$, (iii) $r = 0$, where r is correlation coefficient.

b) Define M.D. about mean. Find M.D. about mean from the following data.

31, 35, 29, 63, 55, 72, 37.

[10]

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