SN-35

Seat No.

B.Com. (Part - II) (Semester - III) Examination, December -2019
STATISTICS
Business Statistics
(Paper - I)
Sub. Code : 63110

Day and Date : Monday, 02 - 12 - 2019　　　　　　　Total Marks : 50

Time : 03.00 p.m. to 05.00 p.m.

Instructions :　　1)　Attempt any five questions.

　　　　　　　　2)　Figures to the right indicate full marks.

　　　　　　　　3)　Use of non-programmable calculator is allowed.

Q1) a)　Distinguish between primary data and secondary data.

　　　b)　If $N = 10, \sum X = 200, \sum X^2 = 4560$, find the value of Standard deviation.

　　　　　　　　　　　　　　　　　　　　　　　　　　[5+5]

Q2) Define Arithmetic mean and state its merits. Compute mean from the data given below:　　**[10]**

Sale (in '000 Rs.)	20-30	30-40	40-50	50-60	60-70
No. of Shops :	10	20	23	12	10

Q3) Define Karl Pearson's Correlation coefficient. Compute the correlation coefficient (r) from the following data:　　**[10]**

N=10,　$\sum X=370$, $\sum Y=330$, $\sum X^2=9500$, $\sum Y^2=7400$ and $\sum XY = 8400$

P.T.O.

Q4) Distinguish between absolute and relative measures of dispersion. [10]

	Sample-I	Sample-II
Mean	15	18
S.D.	3	5

Compare the consistency of two samples using C.V.

Q5) Define regression. State two equations of regression lines. Obtain the equation of line of regression of y on x from the following data: [10]

X :	2	7	9	10	4	6
Y :	3	6	8	12	5	7

Q6) Define Range and Q.D. Compute Q.D. and it's coefficient from the following data: [10]

Wages :	200-250	250-300	300-350	350-400	400-450
No. of workers :	10	15	26	14	10

Q7) a) Write a note on simple random sampling. [5+5]

b) State the relationship between mean, median and mode. For a moderately asymmetric distribution, mode and median are 76 and 68 respectively, find the value of mean.

✠ ✠ ✠