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Seat No.	

Total No. of Pages : 2

B.B.A (Part - II) (Semester - III) Examination, November - 2015
STATISTICAL TECHNIQUES FOR BUSINESS (Paper - I)
Sub. Code : 43940

Day and Date : Monday, 23 - 11 - 2015 **Total Marks : 40**

Time : 12.00 noon. to 2.00 p.m.

Instructions :
1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**
3) **Use of nonprogrammable calculator is allowed.**
4) **Graph paper will be supplied on request.**

Q1) Attempt any Two. **[14]**

a) Define the terms (i) sample (ii) sampling.

Explain SRSWR and SRSWOR.

b) Define spearman's rank correlation coefficient and find it for the following data.

X	53	98	95	81	75	61	59	55
Y	47	25	32	37	30	40	39	45

c) Following data gives the wickets taken by two players A and B in 5 matches.

wickets taken by A	4	2	0	2	5
wickets taken by B	1	2	2	4	2

Use C.V. to find who is consistent player in the matter of taking the wickets.

Q2) Attempt any Two. **[16]**

a) Explain in brief the construction of a less than Ogive curve. Draw a less than Ogive curve from the following data and hence determine median.

Age(in years)	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
No.of workers	18	32	45	60	50	36	25	14

b) Define median and mode. Calculate median and mode for the following data.

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

c) State equations of regression lines. Calculate correlation coefficient between price and demand using following data.

price	2	3	4	7	6
Demand	10	7	3	1	2

Also obtain equation of regression line of price on demand.

d) Define mean Deviation (M.D) about mean. Find M. D. about median and its coefficient for the following data.

value	10	11	12	13	14
Frequency	3	12	18	12	4

Q3) Attempt any Two. **[10]**

a) Write note on scatter diagram.

b) Define combined mean for two groups. The average income of the factory workers were Rs. 270. The mean income of 70 male workers were Rs.300. Find the mean income of 30 female workers.

c) State requirements of a good measure of dispersion. The ages in years of 5 children in a family are

2, 3, 4, 5, 6

calculate S.D. of age.

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