

Hall Ticket Number : 

--	--	--	--	--	--	--	--	--

**R-17**

**Code: 7P1C16**

M.B.A. I Semester Supplementary Examinations October 2020

**Business Statistics**

Max. Marks: 60

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 12 = 60 Marks )

\*\*\*\*\*

**UNIT-I**

1. Define statistics and explain origin and growth of statistics

**OR**

2. a) Discuss functions of statistics  
b) Write about managerial application of statistics

**UNIT-II**

3. What is Statistical table? Mention the rules of constructing of a table

**OR**

4. What is meant by classification? How are data classified?

**UNIT-III**

5. Compute mean, median, mode and range from the following data

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	5	10	25	30	20	10

**OR**

6. Calculate mean deviation from the following data

x	10	11	12	13	14
f	3	12	18	12	3

**UNIT-IV**

7. From the following data obtain the two regression equations and calculate the correlation coefficient.

x	1	2	3	4	5	6	7	8	9
f	9	8	10	12	11	13	14	16	13

Estimate the value of y which should correspond an average to x=6.2

**OR**

8. The following data relate to the scores obtained by 9 salesmen of a company in an intelligence test and their weekly sales in thousand rupees:

Salesmen Intelligence	A	B	C	D	E	F	G	H	I
Test Scores	50	60	50	60	80	50	80	40	70
Weekly Sales	30	60	40	50	60	30	70	50	60

- a) Obtain the regression equation of sales on intelligence test scores of the salesmen  
b) If the intelligence test score of a salesman is 65, what would be his expected weekly sales?

**UNIT-V**

9. Explain components of time series and model of time series

**OR**

10. From the following find out long-term trend by the least squares method and estimates the sales for 7<sup>th</sup> year.

Year	1	2	3	4	5	6
Sales (In Laksh)	130	140	150	170	180	200

\*\*\*