

Roll No .....

**MAM-202****Master of Applied Management (Dual Degree),  
II Semester**

Examination, December 2016

**Business Statistics***Time : Three Hours**Maximum Marks: 70***Note :** Attempt any five questions. All questions carry equal marks.

1. a) Define the term 'statistics' and explain its characteristics.  
b) Explain the different methods of collecting data with the merits and limitations.

2. From the following data, calculate Mean Mode, Median,  $Q_1$  and  $Q_3$ :

Marks Less than	10	20	30	40	50	60
No. of Students	10	30	60	110	150	180

3. Two Batsman A and B made the following score in a series of cricket matches :

A	14	13	26	53	17	29	79	36	84	49
B	37	22	56	52	14	10	37	48	20	4

Who is more consistent player? consider 35 as a working Mean.

4. From the following data, calculate Karl Pearson's coefficient of correlation :

X	12	9	8	10	11	13	7
F	14	8	6	9	11	12	3

5. Find the Rank correlation coefficient from the following marks awarded by the examiners in statistics :

Marks

Awarded by A Marks	24	29	19	14	30	19	27	30	20	28	11
Awarded by B	37	35	16	26	23	27	19	20	16	11	21

6. a) Explain the importance and limitation of Graphical presentation of data.  
b) How is Histogram constructed when class intervals are of unequal width?
7. a) State the methods of measuring dispersion?  
b) From the statistical data, the following information is obtained.  $\Sigma x^2 = 13,680$  and Mean = 26. But later it was found that one particular item was mistakenly recorded as 64 instead of 46. Due to this, mean reduced to 25. Find the standard deviation of the data.

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