JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MBA-I Semester Supplementary Examinations July 2010
STATISTICS FOR MANAGEMENT

Time: 3hours   **Max.Marks:60**

Answer any Five questions
All questions carry equal Marks

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1. Explain the difference between classification and Tabulation of data and write a brief note on format of a table and also explain the rules for entering the data into a table.

2. Explain different methods for collecting primary and secondary data.

3. Explain different types of Scales used in Research.

4. Calculate Mean, Median and Mode from the following data

Mid Values	115	125	135	145	155	165	175	185	195
Frequencies	6	25	48	72	116	60	38	22	3

5. The following facts were gathered before and after an industrial dispute

	Before Dispute	After Dispute
No. of Workers	516	508
Mean Wages	Rs.49.50	Rs.51.75
Median Wages	Rs.52.70	Rs.50
Variance of Wages	100	121

   Compare the position before and after the dispute in respect of
   a) Total Wages   b) Standard Deviation   c) Skew ness
   d) Median Wages   e) Coefficient of variation   f) Modal Wages

6.a) Explain different types of Index Numbers and methods for construction of index numbers
   b) Calculate four yearly moving average from the following data,

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Value	50	36.5	43	44.5	38.9	38.1	32.6	41.7	41.1	33.8

7. Five types of fertilizers are applied to four varieties of potatoes, each planted on five plots of land of the same size and fertility. The yields are shown in the following data,

Fertilizers / Potatoes	1	2	3	4	5
A	34	38	44	40	42
B	50	38	46	52	44
C	42	36	50	46	48
D	38	44	52	36	42

Test whether i) The effects of fertilizers and ii) the effects of potato varieties are significant on the yield of potatoes.

8. Four coins are tossed 320 times and the number of heads obtained were recorded as follows

No of Heads	0	1	2	3	4
Frequency	15	102	108	68	27

Can we regard all the coins as unbiased?

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