

Code :9EBS105

M.B.A - I Semester Supplementary Examinations, August/September 2011  
STATISTICAL METHODS FOR MANAGEMENT  
(For students admitted in 2009-10 & 2010-11 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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1. Explain various methods of data collection in statistics. State various methods of collecting the primary data.
2. Explain the method of construction of frequency waves and histogram.
3. (a) Define arithmetic mean, geometric mean, harmonic mean and discuss their merits and demerits.  
(b) Calculate standard deviation to the following data:

Classes:	15-19	19-23	23-27	27-31	31-35	35-39
Frequency:	8	59	47	23	6	4

4. Explain with examples, different types of correlation and calculate correlation coefficient.

X:	10	9	8	7	6	5	4	3	2	1
Y:	25	23	20	16	12	12	10	8	5	4

5. (a) What are regression lines? Explain why it is necessary to consider two regression lines.  
(b) Obtain the regression equations for the following.

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

6. (a) Explain Poisson distribution and write down their properties.  
(b) A die is thrown once find:
  - i. P(even number)
  - ii. P(a number  $\geq 3$ )

7. (a) Explain basic laws of derivative.  
(b) Define the differential coefficient of a function.
8. (a) Explain calculation of limits through derivative.  
(b) Explain elasticity.

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