

Code : 9EBS105

MBA I Semester Supplementary Examinations, August 2010
STATISTICAL METHODS FOR MANAGEMENT
(For students admitted in 2009-2010 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions
All questions carry equal marks

1. (a) Discuss limitations of statistics.
(b) Explain classification of data.
2. (a) Define various types of diagrams.
(b) Cost and Revenue of a firm is given (in'000 Rs). Draw a suitable diagram.

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|----------|------|------|------|------|------|------|------|------|
| Year: | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Cost: | 840 | 960 | 1020 | 1080 | 1200 | 1220 | 1360 | 1520 |
| Revenue: | 1100 | 1140 | 1320 | 1080 | 940 | 1100 | 1200 | 1250 |

3. (a) Explain various types of averages with examples.
(b) Calculate mean and median of the given data.

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|-----------------|------|-------|-------|-------|-------|-------|-------|
| Class interval: | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
| Frequency: | 4 | 13 | 27 | 87 | 51 | 47 | 14 |

4. (a) Explain correlation with example.
(b) The following marks have been obtained by a class of 7 students in Commerce and Economics. Find Karl Pearson's correction coefficient for the data given below:

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|------------|----|----|----|----|----|----|----|
| Commerce: | 66 | 85 | 89 | 55 | 58 | 44 | 42 |
| Economics: | 58 | 67 | 72 | 38 | 59 | 60 | 62 |

5. (a) Explain the concept of regression and point out its usefulness in dealing with business problems.
(b) Distinguish between correlation and regression analysis and point out their role in business.
6. (a) Define probability with an example.
(b) Explain conditional probability.
7. (a) Explain basic laws of derivative.
(b) Explain higher order derivative with an example.
8. (a) Explain marginal profit with an example.
(b) Explain elasticity with example.
