

PGDGBL

Term-End Examination

June, 2011

**MGB-011 : INFORMATION ANALYSIS FOR
STRATEGIC DECISION MAKING**

Time : 3 hours

Maximum Marks : 100

Note : Answer any five questions . All questions carry equal marks.

1. The Science of Statistics is a most useful servant but only of great value to those who understand its proper use. "Comment." 20
2. Calculate Arithmetic mean and the median for the data given below : 20

Marks	No. of students	Marks	No. of students
5 - 10	6	25 - 30	5
10 - 15	5	30 - 35	4
15 - 20	15	35 - 40	2
20 - 25	10	40 - 45	2

3. Karl Pearson's coefficient of skewness of a distribution is +0.32. Its standard deviation is 6.5 and the mean is 29.6. Find the mode and median of the distribution. 20

4. It is 8 to 5 against a person who is now 40 years old living till he is 70 and 4 to 3 against a person now 50. living till he is 80. Find the probability that at least one of these persons would be alive 30 year hence. **20**
5. The monthly incomes of a group of 10,000 persons were found to be normally distributed with mean equal to Rs 15,000 and standard deviation equal to Rs 1,000. What is the lowest income among the richest 250 persons ? **20**
6. Briefly comment on the following. **10+10**
- (a) Descriptive statistics are procedures used to organise and summarize data.
 - (b) Illustrate the relationship between the happening of event with the probability value.
7. Differentiate between the following. **10+10**
- (a) Qualitative and Quantitative variable.
 - (b) Poisson And Exponential Distribution.
8. Write short notes. **10+10**
- (a) Population Mean
 - (b) Two Tailed Test
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