

PGDGBL

Term-End Examination

June, 2012

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

*Time : 3 hours**Maximum Marks : 100**Note : Answer any five questions.**All questions carry equal marks.*

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1. What are the steps in decision making ? How data analysis is useful in decision making ? 20

 2. The incidence of occupational disease in an industry is such that the work men have a 20% chance of suffering from it. What is the probability that out of six workmen, 4 or more will contract the disease ? 20

 3. You are given the following data : 20

	<u>X</u>	<u>Y</u>
Mean	36	85
S.D	11	8

Correlation coefficient between 'X' and 'Y' = 0.66.

Find two regression equations.

4. Calculate correlation coefficient from the following results. **20**

$$N = 10 \quad \Sigma X = 140 \quad \Sigma Y = 150$$

$$\Sigma(X - 10)^2 = 180$$

$$\Sigma(Y - 150)^2 = 215$$

$$\Sigma(X - 10)(Y - 15) = 60$$

5. Calculate the coefficient of skewness based on mean and median from the following distribution. **20**

<u>Class Interval</u>	<u>Frequency</u>
0 - 10	6
10 - 20	12
20 - 30	22
30 - 40	48
40 - 50	56
50 - 60	32
60 - 70	18
70 - 80	6

6. What are the characteristics of normal distribution and Binomial distribution ? Also state their applications for business decision making. **20**
7. What are the purposes of measures of dispersion ? What are their limitations ? **20**
8. Write short notes on the following : **4x5=20**
- (a) Kurtosis
 - (b) Geometric mean
 - (c) Probability
 - (d) Random Sampling