

## PGDGBL

## Term-End Examination

December, 2010

**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. "Statistics are like clay of which you can make a God or Devil as you please". Comment in the light of strategic Decision making and managerial perspectives. 20

2. Find out mode of the following distribution. 20

Class - Interval	4-8	8-12	12-16	16-20
Frequency	10	12	16	14
Class-Interval	20-24	24-28	28-32	32-36
Frequency	10	8	17	5
Class Interval	36-40			
Frequency	4			

3. (a) If the standard deviation of a series is 7.5, find the most likely value of Mean Deviation and Quartile Deviation: 10
- (b) Find the coefficient of skewness if mode is more than mean by 4.5 and the variance is 121. 10

4. In a bag there are 4 white and 2 black balls. Two balls are drawn from the bag one after another without replacement. What is the probability that the two balls are of different colours? 20

5. Fit a Binomial distribution to the following data : 20

$x :$	0	1	2	3	4	5
$f :$	11	10	30	25	15	9

6. Briefly comment on the following : 10+10

- (a) Poisson Distribution was introduced by S.D.Poisson as a distribution of rare events. Explain.
- (b) The coefficient of correlation describes the strength of the linear relationship between two variables.

7. Differentiate between the following : 10+10

- (a) Sample and Population.
- (b) Discrete and continuous variable.

8. Write short notes on the following : 10+10

- (a) Method to select sample.
- (b) Inferential statistics.
-