## Business Statistics-I

Time Allowed: 3 Hours

Maximum Marks :

Regular: 80

Re-appear: 90

Note: Question No. 1 is compulsory. Attempt five questions in all, All questions carry equal marks.

## Compulsory Question

- 1. Explain/answer the following upto one page length:
  - (a) Limitations of Statistics
  - (b) Types of Statistics method.
  - 6 Median
  - (d) Moving average
  - e Difference between Skewness and Dispersion.
  - Sampling effors.
- Explain with examples various Frequency distribution graphs.
- 3. Calculate Mean, Median and Mode from the following
  Data:

Value: 1-10 11-20 21-30 31-40 41-50 Frequency: 4 12 20 9 5

4. Calculate the Mean deviation and its coefficient from Mean and Median from the following Data:

	11001					
Ma	rks:	0-10	10-20	20-30	30-40	40-50
No	. of :	6	26	51	11	4
St	udents	1				

- 5. A Define Moments. How are they usefull?
  - Describe measures of Skewness and Kurtosis.
- 6. Explain the following by giving their merits and demerits:
  - Simple Random sampling method.
  - (b) Cluster sampling method
  - () Sales force opinion methodof Forecasting
  - (d) Statistical methods of Forecasting.
- 7. Calculate Laspeyre's, Paasche's and Fisher's ideal index for the following data:

Commodity	1970		1980	
	Price	Expenditure	Price	Expenditure
	Rs.		Rs.	
A	8	100	10	90
В	10	60	11	66
С	5	100	5	100
D	3.	30	2	24
E	2	8	4	20
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Also State whether the above data satisfy Time reversal test.

 For a group of 100 abservations, the Mean and Standard deviation were found to be 60 and 5 respectively. Later on it was discovered that a correct item 50 was wrongly copies as 30. Find the correct Mean and Standard deviation.