

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

MBA (Sem.-1)
QUANTITATIVE TECHNIQUES

Subject Code : MB-104

M.Code : 49031

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) Annuity
- b) Principles of mathematical induction
- c) Kurtosis
- d) Significance of index numbers
- e) Seasonal variations
- f) Properties of regression coefficients
- g) Theoretical distributions
- h) Sampling distribution
- i) If payment of Rs 20,000 is made quarterly for 10 years @ 8% p.a., find annuity.
- j) Multiplicative law of probability

SECTION-B

2. Discuss the role of statistics and mathematics in various business decisions, giving examples.
3. Using Binomial theorem, obtain the 6th term in the expansion of $(2x + y)^9$.
4. Find the coefficient of variation for the following data and comment on it :

X	10	18	14	22	17	26	29
Y	5	7	2	8	4	9	11

5. Discuss what is meant by time series analysis. Discuss its various components.
6. Find the correlation coefficient for the following data :

X	10	20	30	40	50	60
Y	105	125	115	145	135	155

7. Write short notes on :
 - a) Point estimation
 - b) Internal estimation

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.