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MBA (Sem.-1) QUANTITATIVE TECHNIQUES

Subject Code: MB-104 M.Code: 49031

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

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
- Sampling distribution
- 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.
- Using Binomial theorem, obtain the 6^{th} term in the expansion of $(2x + y)^9$. 3.
- 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				
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int estimation											
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- 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.

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