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Roll No.	Total No. of Pages : 0
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Total No. of Questions: 15

MBA (2016 to 2017) (Sem.-1)
QUANTITATIVE TECHNIQUES
Subject Code: MBA-104

M.Code: 49004

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A contains SIX questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-B consists of FOUR Subsections: Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
- SECTION-C is COMPULSORY and consist of ONE Case Study carrying EIGHT marks.

SECTION-A

- What is meant by data tabulation?
- Discuss the essence of skewness and kurtosis.
- Explain the tests of significance for small samples.
- 4. What is the significance of spearman's rank correlation coefficient?
- Explain what is meant by deflation and splicing?
- Discuss the two theorems of probability, giving examples.

SECTION-B

UNIT-I

- Discuss the scope and importance of statistics. Further discuss the applications of statistics in managerial decision making, giving examples.
- Find out the standard deviation for the following data :

X	110-115	115-120	120-125	125-130	130-135	135-140	140-145
Freq	3	8	11	16	12	9	4

UNIT-II

Define Sampling. Explain the different types of sampling.

1 | M-49004 (S13)-328

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 Participation of customers was noted during a recent online sale. Their monthly incomes were also noted. Find out if there is any association between their income and their participation in the sale? (Given for v = 3, χ² = 7.815)

		Income (in '000 Rs.)				
		Below 30	30-40	40-50	Above 50	Total
Particip ation	Participated in the sale	130	60	60	50	300
	Did not participate	80	50	30	40	200
Par	Total	210	110	90	90	500

UNIT-III

- 11. Write brief notes on:
 - a) Regression coefficients
 - b) Standard error
- Explain what is meant by Index numbers? Discuss their different methods of construction.

UNIT-IV

- What is time series analysis? List and explain its various methods.
- Write brief notes on :
 - a) Random Variables
 - b) Normal Distribution

SECTION-C

15. A study was conducted on the salesmen of a company. The sales revenues (in Rs Lakhs) achieved in a particular quarter was cross tabulated vis-α-vis their experiences. As a business analyst, find out if there is any correlation or association between the experience years of the salesmen and the sales revenues, and to what degree?

-	Experience (in years)			
Revenues achieved (Rs Lakhs)	18	19	20	21
200-250	4	4	2	1
250-300	3	5	4	2
300-350	2	6	8	5
350-400	1	4	6	10

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.

2 | M-49004 (S13)-328

