No. of Printed Pages : 2

Sl. No.

21MBA1C5L

MBA I Semester (NEP) Degree Examination, June - 2023 MANAGEMENT

Quantitative Techniques for Managers

Time : 3 Hours

Maximum Marks: 70

Note : Answer any five questions out of the following questions. Q1 is Compulsory. Each question carries equal marks.

- 1. What are various ways to present data to convey the meaning? Explain in 7 (a) brief.
 - Calculate standard deviation for the following data : (b)

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	5	8	15	16	6

Write a note on various types of interpretations from scatter diagrams. 2. (a) 7 Find the correlation coefficient between advertisement expenditure and profit (b) 7 for the following data :

Adv. Expenditure	30	44	45	43	34	44
Profits	56	55	60	64	62	63

3. Consider the following time series

Т	1	2	3	4	5	6	7
Yt	120	110	100	96	94	92	88

- Construct a time series plot. What type of pattern exists in the data ? (a)
- Develop the linear trend equation for this time series. (b)
- What is the forecast for t = 8? (c)
- 4. Write a brief note on normal distribution. (a)
 - The chances of catching cold by workers working in an ice factory during (b) winter are 25%. What is the probability that out of 5 workers 4 or more will catch cold ?

P.T.O.

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5.	(a)	Discuss in detail scope of data analytics.	7
	(b)	Write a note on dashboards and reporting.	7

6. Marks of 6 students of a class in paper I and paper II of Statistics are given below : 14

Paper I	45	55	66	75	85	100
Paper II	56	55	45	65	62	71

Find

- (i) Both regression coefficients,
- (ii) Both regression lines, and
- (iii) Correlation coefficient

7. (a)Write a brief note on data warehousing.7(b)Write a brief note on Bayes' Theorem.7

8. Write a note on following :

(a)	Seasonal Variations	5
(b)	Median	5
(c)	Moving Averages	4

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