

9. Ten employees were given intensive coaching and 3 tests were conducted in a month. The score of test one and 3 are given below :

No. of Employee	1	2	3	4	5	6	7	8	9	10
1st test	52	43	53	29	36	52	59	75	65	41
3rd test	61	40	55	39	29	56	62	78	69	38

Does training have significant impact on performance of the employees ?

Roll No. _____

12004

**MBA 2 Yr. 1st Semester (old) CBCS
Examination – February, 2022**

QUANTITATIVE ANALYSIS

Paper : 16IMG21CA

Time : Three hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Attempt one question from each Unit. All questions carry equal marks.

1. Explain the following terms : B × 2 = 16
 - (a) What do you understand by cumulative frequency distribution ?
 - (b) When the use of Median is considered more appropriate than mean ?
 - (c) What is scatter Diagram ?
 - (d) Discuss advantages of using regression analysis.
 - (e) What is probability distribution ?

(f) A candidate is selected for interview for two posts. For the first post there are 4 candidates and for second post 3 candidates are there. What is the probability that the candidate is selected for at least one job?

(g) Type I error is more harmful than Type II Error. Comment.

(h) What are major assumptions of ANNOVA?

UNIT - I

2. Which measure of central tendency is usually preferred if distribution is known to be single peaked and skewed? Why?

3. A railway train run for 40 minutes at a speed of 50 km an hour and then because of repairs of the track runs for 10 minutes at a speed of 10 km an hour. Later on it resumes the previous speed and runs for 30 minutes. What is the average speed?

UNIT - II

4. What do you understand by time series? Why is time series considered to be an effective tool of forecasting?

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5. Calculate the correlation and find the two lines of regression from the following data:

X	30	32	24	28	31	29	30	26	25
Y	32	32	27	22	28	23	36	32	33

UNIT - III

6. A company has 2 plants to manufacture Cars. Plant A manufactures 70% of cars while 30% production come from plant B. At plant A, 88 out of 100 cars are rated as standard quality. At plant B 75 out of 100 cars are rated as standard quality.

(a) What is the probability that car selected at random come from plant A if it is of standard quality.

(b) What is the probability that car selected at random come from plant A if it is of standard quality.

7. Briefly describe Normal Probability Distribution. Why this distribution have prominent place in the statistical analysis?

UNIT - IV

8. Discuss in detail various step involved in Hypothesis testing. How standard error in testing of hypothesis can impact decision making?

12004 (P-4)(Q-9)(22) (3)

P. T. O.