

10. Draw a network diagram and also find critical path :

Activity	Duration (in days)
1-2	20
1-3	25
2-3	10
2-4	12
3-4	6
4-5	10

11. Define Decision Tree Technique. What are its key features ?

12. Define Matrix Algebra. What are its significance ?

13. Explain Linear Programming and its objective in Simplex Method.

MP-204/MP-304 (Old)

December – Examination 2023

Master of Business Administration (IInd Year) Examination

QUANTITATIVE TECHNIQUES

Paper : MP-204/MP-304 (Old)

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

8×2=16

(Very Short Answer Type Questions)

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) What do you mean by Quantitative Techniques ?

- (ii) What is Correlation ?
- (iii) Define Calculus.
- (iv) What is Probability ?
- (v) Define Networks.
- (vi) What is Linear Programming ?
- (vii) What are CPM key features ?
- (viii) What do you mean by Index Numbers ?

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. Explain the concept of Correlation and Regression.
3. What are the key features of Business Forecasting ?
4. What do you mean by Pay-off Matrix ?
5. What are the key features of Time Series ?
6. Game Theory Practical—There are two players A and B participating in a play. Player A is the starting player. Player A has three strategies and

Player B also has three strategies. The pay-off matrix for Player A is given below. Decide optimal strategy for Player A and Player B. Find the value of the game.

Strategies for Player A	Strategies for Player B		
	B ₁	B ₂	B ₃
A ₁	8	5	7
A ₂	2	3	8
A ₃	6	1	5

7. What is the process of Quantitative Techniques ?
8. What are the key assumptions of Queuing Theory ?
9. What are the key technique to draw a network ?

Section-C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.