11. Explain the methods of determining correlation.

12. Explain the concept linear programming in simplex method.

13. Define decision tree technique. What are the key features of decision tree technique in decision theory ?

MP–204/MP–304 (Old)

June – Examination 2023

Master of Business Administration (IInd Year) Examination

QUANTITATIVE TECHNIQUES

Paper : MP-204/MP-304

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)   Define Quantitative Techniques.

   (ii) What is Matrix Algebra ?

(iii) What do you mean by CPM ?

(iv) Define Queuing.

(v) What is Business Forecasting ?

(vi) Give *two* features of OR ?

(vii) Define Networks.

(viii) What is decision theory ?

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. What is the nature of Quantitative Techniques ?

3. Explain the concept of correlation and regression.

4. What are the main features of matrix algebra ?

5. A sample of 2,000 articles has average weight of 25 kg and standard deviation 5 kg. How many articles will lie between 20 to 30 kg as per probability distribution ?

6. What is the significance of business forecasting ?

7. Explain the components of time series.

8. What are the main assumptions of queuing theory ?

9. What do you mean by Pay-off Matrix.

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.

10. Draw a network diagrams :

Activity	Time (in days)
1–2	6
2–3	8
2–4	10
3–4	0
3–5	6
4–5	20
5–6	16