- 5. What do you understand by Business Forecasting? Explain the objectives underlying the business forecasting.
- 6. By using Laspeyre's method, calculate the weighted price index for the year 2010 when the given data indicates the prices and consumption levels of various commodities:

Commodities	Base Price	Current Price	Average Quantity
	2007 (₹)	(2010) (₹)	Consumed (2007)
Potatoes (per kg)	5.10	4.50	4000 kgs
Milk (per litre	14.00	17.00	800 litres
Eggs (per doz)	21.00	24.00	2000 dozens
Bread (per loaf)	17.50	19.00	350 loaves

- 7. Briefly explain the different decision rules adopted in decision-making under condition of uncertainty.
- 8. Explain the meaning of a queue and state the object of queuing analysis. Briefly describe the elements of queuing system.
- 9. What is Network Analysis? When is it used? What is meant by the phrase 'Critical Path'?

MP-204/MP-304 (Old)

December - Examination 2021

Master of Business Administration (II Year) Examination

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

Time: 1½ Hours] [Maximum Marks: 80

Note:— The question paper is divided into two Sections

A and B. Write answers as per the given instructions.

Section-A $4\times4=16$

(Very Short Answer Type Questions)

- Note: Answer any four 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 4 marks.
- 1. (i) What is Explicit and Implicit functions?
 - (ii) What is Linear and Non-linear correlation?

- (iii) What is Price Index?
- (iv) Write Fisher's Ideal Formula for Price Index Number.
- (v) What is Conditional Probability?
- (vi) What is PERT?
- (vii) What do you mean by 2×2 Two-person games?
- (viii) Explain different types of floats.

(Short Answer Type Questions)

Section-B

Note: Answer any *four* questions. Eacg answer should not exceed **200** words. Each question carries 16 marks.

- 2. Write a short note on "Operation Research" describing some of the important O.R. techniques.
- 3. There are three dealers in a market who sales Radios, T.V. and CD players. A sells weekly 14 radios, 2 TV and CD players. B sells weekly 10 radios, 3 TV and 10 CD players. C sells weekly

9 radios, 5 TV and 9 CD players. If the profit per radio is Rs. 50, on TV is Rs. 20 and on CD players is Rs. 30. Calculate their individual profits.

4. Marks obtained by a student in Physics and Maths (out of 100) are given in the following Table :

Physics (x)	Maths (y)
80	82
45	56
55	50
56	48
58	60
60	62
65	64
68	65
70	70
75	74
85	90

(3)

 $4 \times 16 = 64$