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MP-304/204 (New)

June – Examination 2020

**Master of Business Administration
(II Year) Examination**

Quantitative Techniques

Paper : MP-304/204 (New)

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per 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 is arithmetic progression ?
- (ii) What is continuity ?
- (iii) What is Linear Programming ?

- (iv) What do you mean by Co-factor of Determinant ?
- (v) State the Cramm's Rule.
- (vi) What do you mean by forecasting in business ?
- (vii) What is Variable ?
- (viii) Write *two* limitations of Index Number.

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. Describe, in brief, some of the important quantitative techniques used in modern business industrial units.
3. Write a note on survey method of forecasting and opinion Poll method of forecasting.
4. What is the importance and utility of Time Series Analysis ?
5. Discuss the limitations of quantitative techniques.
6. Explain the preliminary adjustments required before analyzing time series data.
7. State the difference between seasonal variations and cyclical fluctuations.

8. "An Index number is a special type of average." Discuss.
9. What is the difference between Chain base method and Fixed base method ?

Section-C **2×16=32**

(Long Answer Type Questions)

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

10. What are the characteristics of OR ? How it plays an important role in an organisation for decision-making ?
11. Explain the meaning of a queue and state the object of queuing analysis. Briefly describe the elements of the queuing system.
12. What is network analysis ? When is it used? What is meant by the phrase 'Critical Path' ?
13. Explain the following in detail with the help of examples :
 - (i) General formulation of LP
 - (ii) Standard formulation of LP
 - (iii) Matrix formulation of LP