

7. "An Index number is a special type of average."
Discuss.
8. Write down the characteristics of a Good Model.
9. Write a note on Bayesian Decision Rule.

MP-204

December – Examination 2020

Master of Business Administration (II Year) Examination

Quantitative Techniques

Paper : MP-204

Time : 2 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

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 upto **30** words. Each question carries 2 marks.

1. (i) What is Break-even Analysis ?
- (ii) Who developed Calculus ?
- (iii) What is explicit and implicit function ?
- (iv) What is the full form of CPM ?
- (v) Define Differentiation.
- (vi) Define Limits.
- (vii) Define Function.
- (viii) Write down the name of four types of mathematical model.

Section-B **4×16=64**

(Short Answer Type Questions)

Note :- Answer any *four* questions. 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. Find the sum of the series : $1 + 5 + 25 + \dots$ to 20 terms.

4. Write a note on the use of calculus to business.
5. Obtain the rank correlation coefficient between the variables X and Y from the following pairs of observed values :

X	Y
50	110
55	110
65	115
50	125
55	140
60	115
50	130
65	120
70	115
75	160

6. Explain the merits and demerits of moving average.