

Roll No.

Total No. of Questions : 13] [Total No. of Printed Pages : 4

DR-392

M.B.A. 1st Semester (FT)

Examination, 2019

Quantitative Methods

Paper - CP-102

Time : 3 Hours]

[Maximum Marks : 80

Note :- Attempt all the questions.

SECTION - 'A'

4×8=32

Short Answer Type Questions

Note :- Attempt any four questions from this section. Each question carries 08 marks

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(1)

P.T.O.

1. Discuss the utility and limitations of graphic method of presenting statistical data.
2. Explain the Properties of a good average. In the light of these properties which average do you think is the best and why?
3. The mean and standard deviation of a set of 9 items are 43 and 5. If an item of value 63 is added to the set, find the mean and standard deviation of 10 items.
4. Find the coefficient of variation if variance is 16, member of items is 20 and sum of the items is 160.
5. Explain the following terms in Probability
 - (a) Equally likely event
 - (b) Mutually exclusive event
 - (c) Independent event
6. Explain the meaning and significance of the concept correlation. What are the different methods of finding Correlation?
7. What is a time series? Explain its main components.
8. What is an index number? Discuss the problems faced while constructing an index number.

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SECTION - 'B'

3×16=48

Long Answer Type Questions

Note :- Attempt any **three** questions from this section. Each question carries 16 marks.

1. Calculate the median and mode from the following:

Sale	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60
Frequency	4	20	35	55	62	67

2. What do you understand by sampling? Explain various methods of sampling.

3. From the given data

$$4x - 5y + 33 = 0$$

$$20x - 9y - 107 = 0$$

Variance $x = 9$

Find (i) The mean value of x & y

(ii) Standard deviation of y

(iii) Coefficient of correlation between x & y .

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(3)

P.T.O.

4. What are the different measures of dispersion? Why and how they are useful in Business?

5. Define normal distribution and write their properties.

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