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Total No. of Questions: [09]

Total No. of Printed Pages: 2

Integrated Dual Degree B.com-M.com (Semester – 2nd)
BUSINESS STATISTICS
Subject Code: BMCMS1205
Paper ID: [21410111]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Define The term ‘Statistics’.
- b. Give the Characteristics of a good measure of central tendency.
- c. The mean and median of distribution are 13 and 13.5 respectively. Find the mode of the distribution.
- d. Give Difference between correlation and regression.
- e. Define Moving average.
- f. What do you mean by irregular and random variation?
- g. Define Secular trend
- h. Give Limitation of index numbers
- i. What is Meaning of Probability
- j. Define Poisson Probability

Section – B

(5 marks each)

Q2. Calculate mean and median from the following data.

X	f
10-20	4
20-30	8
30-40	12
40-50	10
50-60	15
60-70	11

Q3. From the following table, calculate the coefficient of correlation by Karl Pearson’s method:

X :	Y:
6	9
2	11
10	5
4	8

- Q4. What is Fisher's Ideal Index? Why it is called Ideal.
Q5. Explain the characteristics of Binomial Distribution.
Q6. Explain the properties of regression coefficient.

Section – C

(10 marks each)

- Q7. Discuss the nature and scope of Statistics.
Q8. Fit a linear regression of Y on X to the following data

X	Y
1	2
2	3
3	5
4	4
5	6

- Q9. Explain the following:
a. Components of the time series.
b. Fundamental Rules of Probability.