Roll No…….. **Total No. of Printed Pages: 2**
Total No. of Questions: [09]

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

8	7

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.