Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [11]

M.Sc. (Microbiology) (Semester – 1st)
BIOSTATISTICS
Subject Code: MMBLS1106
Paper ID: [21221406]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 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 **(4 marks each)**

Q1. Define Chi square, t and f variates.
Q2. Describe the relationship between correlation analysis and regression analysis.
Q3. Explain analysis of variance with linear models.
Q4. Classify various parametric and non Para metric tests. Write about implications of any 2 of these tests.

Section – B **(8 marks each)**

Q5. Describe various sampling techniques.
Q6. Define probability. Classify various types of probability distribution.
Q7. Define and calculate the various central tendencies for following data.
(10,13,14,10,36,10,20,14,8,4,8)
Q8. Describe various methods of data collection.

Section – C **(10 marks each)**

Q9. Discuss in detail about theoretical distributions.
Q10. Discuss in detail about Karl pearson's correlation coefficient.
Q11. Write various steps involved in doing research.