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Total No. of Printed Pages: [01]

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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 Parametric 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.