FACULTY OF SCIENCE
MICROBIOLOGY
Paper – III: Biometry and Computers

Time: 3 Hours] \[Max. Marks: 80\]

Note: Answer all the questions.
Each question carries 4 marks on Section – A and 12 marks on Section – B.

SECTION – A \(8 \times 4 = 32\) Marks \(\text{(Short Answer Type)}\)

1. Explain Biometry and its applications.
2. Binomial distribution.
3. Explain different steps involved in testing of hypothesis.
4. Briefly discuss about \(\chi^2\) test.
5. Explain the difference between RAM and ROM.
6. Distinguish between DOS and Windows 95.
7. Discuss about the table creation feature in MS-Word.
8. Explain how to create a graph using MS - Excel.

SECTION – B \(4 \times 12 = 48\) Marks \(\text{(Essay Answer Type)}\)

9. a) Explain different measures of Central tendency with examples and Discuss their merits and demerits.

   OR

9. b) Discuss about linear regression and its usefulness in biological research giving examples.

(This paper contains 2 pages)
10. a) What is analysis of variance? Briefly discuss about one way analysis of variance with an example.

OR

b) Explain the difference between t-test for difference of means and paired t-test. Also explain t-test for difference of means procedure.

11. a) In Windows-95, explain:
   i) Creating a file
   ii) Copying of files
   iii) Moving and searching of files and folders and
   iv) Creating shortcuts of files.

   OR

b) Discuss the following DOS commands with examples:
   i) COPY
   ii) MD
   iii) REN
   iv) DATE AND TIME
   v) DIR

12. a) Discuss about advantages of word processing. Also briefly explain the
   i) Checking spelling and grammar feature and
   ii) Editing feature in MS Word.

   OR

b) In spreadsheet application, list out
   i) Various graphic facilities
   ii) Categories of functions and
   illustrate any two features in each of the above parts.