(i) **Printed Pages : 3**

(ii) **Questions** **: 9**

B.Sc. (Hons.) Biotechnology 2nd Semester

(2053)

STATISTICS & COMPUTER FUNDAMENTALS

Paper— BIOT-203-T

Time Allowed : Three Hours]   [Maximum Marks : 67

Note :— Candidate is required to attempt **FIVE** questions in all including Question No. **1** (Which is compulsory) and attempt remaining **FOUR** questions by selecting ONE question from each unit.

COMPULSORY QUESTION

1. (a) What is the role of graphical representation of data in analysis ?   2

    (b) Define relative dispersion.   1½

    (c) Give an example of hypothesis.   1½

    (d) List merits of secondary storage.   1½

    (e) Write about stored programs.   1½

    (f) What is joystick ?   1½

    (g) List major mass storage devices.   1½

UNIT—I

2. (a) Explain the classification and tabulation of primary data with suitable example of your own choice.   7

(b) Distinguish between :

- Discrete and continuous data
- Uni-variate and bi-variate frequency distribution. 7

3. Discuss the concept of central tendency and their measures. Explain major measures of it with illustrative examples of your own choice. 7+7

UNIT—II

4. (a) How is binomial distribution different from Poisson Distribution ? 7

(b) Discuss properties of binomial and Poisson Distribution with examples. 7

5. Write note on :

- Markov model
- Cluster analysis
- Regression analysis. 14

UNIT—III

6. (a) Discuss the organization of computer with block diagram and highlight is major functional components. 7

(b) Why is it necessary to write a Computer algorithm for problem solving ? Write an algorithm to check whether the given number is odd or even. 7

7. (a) Explain the various functional units and their interrelation – communication within the computer system. 7

(b) Discuss the milestones of hardware and software in light of batch oriented and online applications. 7

UNIT—IV

8. Distinguish between :

    (i)   Primary storage VS secondary storage   7

    (ii)   Input devices VS output devices.   7

9.   (a)   What do you understand by voice response units ? Compare the working of various types of printers.   7

    (b)   What is the significance of storage address and capacity ? Write a note on source data automation.   7