Exam.Code:0034
Sub. Code: 0968

1059

B.Sc. (Hons.) Biotechnology
Second Semester
BIOT- Sem-II-III-T: Statistics and Computer Fundamentals

Time allowed: 3 Hours Max. Marks: 67

***NOTE**: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

I. Attempt the following:-
   a) What are the limitations of secondary data?
   b) Write about the concept of probability.
   c) Define hypothesis testing.
   d) Give an example of cumulative frequency distribution.
   e) What is an optical disc?
   f) Give example of fixed and removable memory. (6x2)
   g) Differentiate between analog and digital computer. (3)

UNIT – I

II. What are grouped and ungrouped frequency distributions? Explain the method of constructing Histogram and frequency polygon. (13)

III. How arithmetic mean, geometric mean and harmonic mean differ from each other? Explain computation of each type with suitable example. (13)

IV. Obtain the moment generating function of the binomial distribution. For a binomial distribution with mean 6 and Standard Deviation $\sqrt{2}$. Write out all the terms of the distribution. (13)

V. Write a note on:-
   a) Markov model
   b) Regression analysis (13)

UNIT – II

VI. What is computer? Give detailed organization of it with its major functional units and application areas. (13)

VII. What is the role of computer in Biotechnology field? Elaborate it with suitable example. Also compare digital and analog computers. (13)

VIII. Discuss features of major types of data storage devices. What do you understand by printed outputs? (13)

IX. Write a note on:-
   a) Plotters
   b) Source data automation (13)

x-x-x