

2072

B.Sc. (Hons.) Bio-Informatics
Second Semester

BIN-2004: Statistics and Computer Fundamentals

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

1. Answer the following:-

- Define Biostatistics.
- Define frequency distribution.
- Differentiate between Analogue and Digital computer.
- Define skewness and how can it be measured.
- Define resolution of a printer.
- What do you mean by magnetic disks?

(6×2)

Unit-I

2 Write short note on the following with example:

- Histogram and Frequency polygon
- Pie diagram and Bar diagram
- Kurtosis and Box and Whisker plot

(3×4=12)

3(a): Find the mean, median, mode, quartile deviation and standard deviation for the following data:

Class:	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency:	15	17	21	26	19	14	11

(b). Discuss the procedure for the construction of an Ogive or cumulative frequency curve.

(10, 2)

4 (a): What is meant by a random variable? Define the distribution function of a random variable. What are the properties of a distribution function?

(b): Define down the probability mass function of Binomial distribution. Also find its mean and variance.

(6, 6)

(2)

Unit-II

- 5 (a) What is Computer? Explain the various components of computer with the help of block diagram.
(b) Discuss basic principles of operations of Magnetic tape. (7, 5)
6. Write short note on:
a) Batch oriented applications
b) Real Time applications
c) Stored Program Concepts (4, 4, 4)
- 7 (a) What do you mean by Memory? Explain primary memory and its various types.
(b) Explain various output devices used in computer system. (6, 6)

x-x-x