

2003000205030059
EXAMINATION OCTOBER 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
BIOSTATISTICS AND BIOINFORMATICS-LEVEL-3

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
 - b. Name of the Subject : **BIOSTATISTICS AND BIOINFORMATICS LEVEL-3**
 - c. Subject Code No : **2003000205030059**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following: 8

1. Define sample.
2. Enlist any 4 demerits of median.
3. What are the clinical applications of Bioinformatics?
4. Enlist the database based on the type of data with two examples.

Q.2 Comment or explain ANY ONE of the following: - 14

1. Give a detailed note on research areas of bioinformatics.
2. Calculate Mean and S.D. of the following data.

Marks obtained	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Students	5	12	15	20	10	4	2

Q.3 Answer ANY TWO of the following: 14

1. What is biological database? Explain the features of biological database.
2. Calculate mode of the following data.

Height of Plant(x)	1-5	6-10	11-15	16-20	21-25
No .of plants (f)	7	10	16	32	24

3. Explain biological database retrieval system in detail.

Q.4 Write short note on ANY TWO of the following:

14

1. Variables and Constants.
2. Transcriptomics & Proteomics.
3. Biological database and its features.
