

2003000205030059
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
MEDICAL LABORATORY TECHNOLOGY
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: **MEDICAL LABORATORY TECHNOLOGY**

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

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- 1) If the value of mode is 60 and mean is 66, find the value of median.
- 2) Define and explain Parameter.
- 3) Give examples of biological data.
- 4) What are the clinical applications of Bioinformatics?

Q.2 Write a detailed note on scope of Bioinformatics.

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OR

The frequency distribution of weight in grams of mangoes of a given variety is given below.

Calculate the arithmetic mean and the median.

Weight in grams	410-419	420-429	430-439	440-449	450-459	460-469	470-479
No. of mangoes	14	20	42	54	45	18	7

Q.3 Answer any Two of the followings

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- 1) What is Bioinformatics? Enlist branches of it.
- 2) Calculate median for the blood Samples of HDL of 43 patients.

HDL (in mg/dl)	9	20	25	40	50	80
No. of patients	4	6	16	8	7	2

- 3) Give a detail account on application and role of biostatistics.

Q.4 Write short notes on: (any two)

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- 1) Variance and Coefficient of variation.
- 2) Biological database retrieval system
- 3) Proteomics and Metabolomics
