



RAN-2003000205030059

T. Y. B. Sc. (Non NEP) (Sem. - V) Examination October - 2025 Medical Laboratory Technology (Paper - IDS) Biostatistics and Bioinformatics (Old Course)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Draw the figures wherever required.
- (3) Figures to the right indicate the marks.

Seat No.:

Student's Signature

Q. 1. Answer the following:

(08)

1. Define sample.
2. Enlist any 4 merits of mode.
3. What are clinical applications of bioinformatics?
4. Define sample.

Q. 2. Attempt ANY ONE of the following:

(14)

1. Explain collection and classification of data.
2. Calculate Mean, Median and Mode of the following data.

Marks obtained	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Students	3	4	10	6	7	5	9	6

Q. 3. Answer ANY TWO of the following:

(14)

1. Define bioinformatics. Give a detail note on different areas of bioinformatics.
2. In a study on patients, following data was obtained. Find the standard deviation.

Age in years	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Number of cases	1	0	1	10	17	38	9	3

3. What is biological database? Explain the features of biological database.

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

(14)

1. Variables and Constants.
2. Aims of bioinformatics.
3. Biological database retrieval system.