



Seat No. : _____

NQ-121

November-2025

B.Sc., Sem.-III

SEC-STA-236 : Biostatistics

(NEP)

Time : 1:00 Hour]

[Max. Marks : 25

Instructions : (1) All questions are compulsory and carry equal marks.
(2) Figures to the right indicate full marks of the questions/sub-questions.

1. (A) Explain different types of data and variables in detail with examples. 5
(B) Explain primary and secondary data with examples. 5

OR

1. (A) Write a short note on applications of biostatistics. 5
(B) Describe tools and software used in biostatistics. 5

2. (A) What are measures of dispersion ? Explain with examples. 5
(B) The following data represent the height of 40 plants (in cm) : 5

Height (cm)	20-30	30-40	40-50	50-60	60-70
Frequency	5	8	15	7	5

Calculate the mean and standard deviation of plant height. Interpret whether the data shows high or low variability.

OR

2. (A) Discuss the importance of dispersion in biostatistics and how it helps in data interpretation. 5
(B) A biologist measured the length of fish (in cm) from a pond and obtained the following data : 5
12, 14, 14, 15, 16, 17, 17, 17, 18, 20.
Find the mean, mode, and median and comment on the symmetry of data distribution.

3. Answer any **five** from following : 5
(1) Name one graphical method of data presentation.
(2) Give one example of a continuous variable.
(3) What is sampling ?
(4) What is range ?
(5) Mention one merit of standard deviation.
(6) Which measure of central tendency is most affected by extreme values ?
(7) Which measure is affected by extreme values ?