

RAN-2403000503048001
S.Y.B.Sc. (NEP) (Sem. III) Examination March - 2026
BM-MDC-3 : Instrumentation & Biostatistics
Time: 1 Hour]
[Total Marks: 25

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Figures to the right indicate full marks. (3) Draw neat & clean diagram wherever necessary.	Seat No.: Student's Signature
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Q.1. Multiple choice questions: (Any Five)
05

- Natural radioactive elements are _____.
a. Hazardous
b. Used for generation of energy
c. Not be detected by chemical method
d. All
- Which of the following is an electrochemical instrument?
a. Electrophoresis
b. pH meter
c. Spectrophotometer
d. Microscope
- If the optical density is zero then intensity of transmitted light is _____.
a. 100%
b. 10%
c. 1 %
d. 0
- A movement of protein during electrophoresis depends on _____.
a. net charge
b. types of protein
c. pH of buffer
d. amino acids in protein
- Which of the following is not a type of paper chromatography?
a. Radial
b. HPCL
c. TLC
d. All
- Hemoglobin concentration of female patients is 11, 12, 10, 16, 13, 15, 11, 13, 12, 13, and 11. Find out the mode _____.
a. 13
b. 11
c. 15
d. None

Q.2. Answer any two of the following.
10

- Write a brief account on application of the EM Radiation.
- Describe in brief principle & component of pH - meter.
- Write a note on - Radioactivity hazards.

Q.3. Describe in detail about principle and types of paper chromatography.
10
OR
Q.3. Answer the following questions.
10

- Write a note on tabulation.
- Describe in brief types of electrophoresis.