



RAN-2403000503048001

S.Y.B.Sc. (NEP) (Sem.-III) Examination November - 2025

MDC : Instrumentation & Biostatistics (BM-MDC-3)

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.:

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Student's Signature

Q.1. Multiple choice questions: (Any Five)
05

1. Full form of 'RAD' is _____
 a. Radiation Absorbed Dose b. Radiation Activity Dose
 c. Radio Active Dose d. Roentgen Absorbed Dose
2. Which of the following is an optical instrument, except _____
 a. Electrophoresis b. Colorimeter
 c. Spectrophotometer d. Microscope
3. Absorption is directly proportional to _____
 a. Concentration of substance
 b. Molecular weight of the substance
 c. Charged of the substance
 d. All
4. Which of the following is a type of electrophoresis?
 a. Agarose b. Cellulose acetate
 c. PAGE d. All
5. Which of the following is a type of paper chromatography?
 a. Radial b. HPCL
 c. TLC d. All
6. Raw data is also known as _____
 a. Unknown data b. Known data
 c. Group data d. Ungroup data

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

1. Write a brief account on EM radiation.
2. Describe in brief principle & component of colorimeter.
3. Write a note on - Radioactive isotopes.

Q.3. Write an essay on - Electrophoresis techniques. **10**

OR

Q.3. Answer the following questions. **10**

1. Write a note on tabulation.
2. The following data shows a frequency distribution of height of 50 students of a class. Draw a histogram for this distribution.

Height in cm	No. of students
161-162.9	3
163-164.9	7
165-166.9	14
167-168.9	12
169-170.9	10
171-172.9	4
