


RAN-2003000205020075
T. Y. B.Sc. (Non NEP) (Sem. - V) Examination October - 2025
Medical Laboratory Technology
Clinical Laboratory Instrumentation (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
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- Q. 1. Answer in short on the following: (08)**
- Define primary fluor with its examples.
 - What is Beer's and Lambert's law?
 - Define: Retention Time.
 - What is electrophoretic mobility?
- Q. 2. Attempt any two the following: (14)**
- Describe iso electric focusing electrophoresis in detail.
 - Explain principle and components of spectrophotometer.
 - Give detail on Ion exchange chromatography with its application.
- Q. 3. Write an essay on any ONE of the following: (14)**
- PAGE
 - Scintillation counter.
- Q. 4. Write short notes on any two of following: (14)**
- Gamma Counter
 - Stable isotopes V/s Radioactive isotopes.
 - Emission Flame photometry V/s Atomic Absorption flame photometry