

2003000205020075
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
MEDICAL LABORATORY TECHNOLOGY-XV (MLT-15-
CLINICAL LABORATORY INSTRUMENTATION) – LEVEL- 2

[Time: As Per Schedule]

[Max. Marks:50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
 - b. Name of the Subject : **MEDICAL LABORATORY TECHNOLOGY-XV (MLT-15-CLINICAL LABORATORY INSTRUMENTATION) LEVEL-2**
 - c. Subject Code No : **2003000205020075**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer in short on the following:

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- a) Define mobile phase and stationary phase with examples.
- b) Give full form for PAGE. Give its uses.
- c) Enlist biochemical uses of radioisotopes.
- d) Define wavelength and wave number.

Q.2 Attempt any two the following:

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- a) Explain principle, components and uses of spectrophotometer.
- b) Comment: role of urea, SDS and β mercaptoethanol in protein separation.
- c) Explain Affinity chromatography and its applications.

Q.3 Write an essay on any one of the following

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- a) Discuss gel permeation chromatography with application.
- b) Explain principle, technique and application of Atomic Absorption spectroscopy.

Q.4 Write short notes on any two of following:

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- a) Turbidometer.
- b) γ radiations.
- c) Paper chromatography.
