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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (MLS) (Sem.-3)
ANALYTICAL BIOCHEMISTRY

Subject Code : BMLS302-18

M.Code : 76631

Date of Examination : 16-06-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION - A

1. Write briefly :

- a) Which technique is used to measure Na^+ and K^+ in the serum or plasma?
- b) Give the applications of thin layer chromatography.
- c) What is a Lambert's Law?
- d) What is the full form of PAGE?
- e) Define kinetic analysis.
- f) What is a transmittance?
- g) Which bulb is used in the spectrophotometer?
- h) What are the different phases in chromatography?
- i) What are the different supporting mediums used for electrophoresis?
- j) Explain the term ground state of an atom.

SECTION - B

2. Discuss the applications of colorimetry and spectrophotometry.
3. What is flame photometry? What are its applications and limitations?
4. Describe the principle, method and applications of gel chromatography.
5. Write short note on ion exchangers.
6. What is agarose gel electrophoresis and what are its applications?

SECTION - C

7. Give the principle, instrumentation and applications of column chromatography.
8. Write a detailed note on the atomic absorption spectroscopy.
9. Explain the principle and instrumentation of a spectrophotometer. List some of its merits.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.