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B.Sc.(MLS) (2014 to 2017) (Sem.-3)
ANALYTICAL BIOCHEMISTRY

Subject Code: BMLS-305 M.Code: 48110

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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) Answer briefly:

- a) Give applications of column chromatography.
- b) What is a standard graph?
- c) What is monochromatic light?
- d) Give applications of agarose gel electrophoresis.
- e) List some limitations of thin layer chromatography.
- f) What is a cation?
- g) Define Excited State of an atom.
- h) Explain the term absorbance.
- i) What is the full form of SDS-PAGE?
- j) What is mobile phase in chromatography?



SECTION-B

- 2) What is the role of gas chromatography in a biochemistry lab? What are its limitations?
- 3) Discuss the factors affecting migration of charged particles during electrophoresis.
- 4) Write a short note on cation and anion exchangers.
- 5) Describe the principle, method and application of affinity chromatography.
- 6) What is native PAGE and what are its applications?

SECTION-C

- 7) Give the principle, instrumentation and applications of paper electrophoresis.
- 8) Explain the principle and working of a spectrophotometer. List some of its merits.
- 9) What are different parts of a flame emission spectroscope? Describe the principle and working of this instrument.

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.

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