

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(MLS) (2011 to 2017) (Sem.-3)

ANALYTICAL BIOCHEMISTRY

Subject Code : BMLS-305

Paper ID : [D1132]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) What is isoelectric focusing?
- b) What is the role of flame in case of flame photometer?
- c) What are anion exchangers?
- d) Define Beer's law.
- e) What is visible range of spectrum?
- f) What do you understand by stationary phase?
- g) What is a single cell photometer? List its disadvantages.
- h) Which techniques are used to find the molecular weight of any protein?
- i) What do you mean by linearity of a method in colorimeter?
- j) What are various applications of gas chromatography?

SECTION-B

2. What is the general principle of a flame photometer? Give its limitations.
3. Write a short note on serum electrophoresis? What are its applications?
4. Write a detailed note on immunoelectrophoresis and give its applications.
5. What is difference between a spectrophotometer and a colorimeter?
6. What is the role of thin layer chromatography in a biochemistry lab? What are its limitations?

SECTION-C

7. Describe the principle, working and applications of two dimensional electrophoresis.
8. Discuss the principle, working and applications of column chromatography.
9. Describe the principle and working of atomic absorption spectroscopy.