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

Subject Code : BMLS-305

Paper ID : [D1132]

Max. Marks : 60

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.

1. Answer briefly :

- What is isoelectric focusing?
- What is the role of flame in case of flame photometer?
- What are anion exchangers?
- Define Beer's law.
- What is visible range of spectrum?
- What do you understand by stationary phase?
- What is a single cell photometer? List its disadvantages.
- Which techniques are used to find the molecular weight of any protein?
- What do you mean by linearity of a method in colorimeter?
- 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.