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B.Sc.(MLS) (2011 to 2017) (Sem.-1)

Subject Code :BMLS-105

Paper ID : [D1111]

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 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 :

- 1) What is the full form of CGS system of units?
- 2) Write down the significance of volumetric apparatus in biochemistry lab.
- 3) Mention how many micrograms are there in one milligram.
- 4) What is empirical formula?
- 5) What do you mean by calibration?
- 6) Give some safety measures specific for a biochemistry lab.
- 7) What is distillation?
- 8) Write down how we calculate molecular weight of H_2SO_4 .
- 9) What is composition of chromic acid solution for washing?
- 10) Define mole.

SECTION-B

- 2 Write down steps involved in cleaning borosil glass.
- 3 Discuss the method for calibration of volumetric apparatus.
- 4 Describe Vant Hoff's equation.
- 5 Discuss strength and molarity of a solution.
- 6 Write a short note on the ethics and responsibility of Medical Lab Technologist.

SECTION-C

- 7 Discuss principle and working of pH meter.
- 8 What is osmosis? Describe its types and factors affecting osmotic pressure.
- 9 Write a detailed note on the process of preparation of distilled water.