

**Total No. of Pages : 02**

**B.Sc.(MLS) (2018 Batch) (Sem.-1)**

**Subject Code : BMLS-103-18**

**M.Code : 75260**

**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.

**1. Answer briefly :**

- Explain disposal of biological samples.
- What are various methods of measuring liquids?
- Derive Henderson-Hasselbach equation.
- Prepare 100ml 0.1N Oxalic acid solution. (Molecular formulae  $C_2H_2O_4 \cdot 2H_2O$ ).
- What is procedure to prepare chromic acid solution?
- Enlist a few glassware used in medical laboratory.
- What are the disadvantages of soda-lime glassware and describe its cleaning.
- What are various precautions taken while handling chemicals and infectious samples?
- What is the difference between distilled water and deionized water?
- Define S.I unit.

**SECTION-B**

2. What is distillation? Explain various types of water distillation plants with diagrams.
3. Define analytical balance. Describe its principle, working and maintenance.
4. What is the role of medical lab technologist in a biochemistry lab?
5. Explain various types of first aid measures required to be used in laboratory for different types of accident.
6. How we should calibrate following glassware :
  - a) Burettes
  - b) Pipettes
  - c) Measuring cylinder
  - d) Flasks

**SECTION-C**

7. Define pH? Give its principle, working and its calibration.
8. Define ethics and responsibility of medical laboratory technologist.
9. Write short notes on normality. Explain with the help of some examples.

**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.**