

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 09

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

**BASICS OF BIOCHEMISTRY**

Subject Code : BMLS-103-18

Paper ID : [75260]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS 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 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****Q1 Answer briefly :**

- a) What is neutralization reaction?
- b) Give Henderson-Hasselbatch equation.
- c) What is a standard?
- d) What do you mean by S.I units of measurement?
- e) Give composition of chromic acid solution.
- f) What is an acid?
- g) Why is a semi-permeable membrane used in the process of osmosis?
- h) What is equivalent weight?
- i) What is the formula for calculating strength of an acid?
- j) What do you mean by volumetric apparatus?

**SECTION-B**

- 2) With the help of suitable examples explain the term molarity.
- 3) Discuss the working and maintenance of water distillation plant.
- 4) What is the role of medical technologist in a clinical lab?
- 5) Write short notes on :
  - a) First aid
  - b) Osmosis
- 6) Write down the steps involved in the calibration of volumetric glassware.

**SECTION-C**

- 7)
  - a) What are various ethics and responsibilities of a medical technologist?
  - b) Write a short note on Pka value.
- 8) Discuss the steps involved in the cleaning of borosil glass. Write down the steps involved in the preparation of chromic acid solution?
- 9) What are pH indicators? Describe the principle, working and maintenance of pH meter. List some precautions.