

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

**B.Sc. (MLS) (2018 & Onwards)**  
**(Sem.-1)**  
**BASIC OF BIOCHEMISTRY**  
**Subject Code : BMLS-103-18**  
**M.Code : 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**

**Answer all of them :**

- Q1) What is a Solution?
- Q2) What is the purpose of a burette?
- Q3) How will you convert mg into grams?
- Q4) Define Ionic Strength of a solution?
- Q5) What is a weak acid?
- Q6) What is the formula for calculating strength of an acid?
- Q7) What is Neutralization Reaction?
- Q8) What is De-Ionized Water?
- Q9) Calculate equivalent weight of sodium bicarbonate.
- Q10) What do you know by end point in titrations?

### SECTION-B

- Q11) What is Molarity? How will you prepare a 0.25M solution of  $\text{Na}_2\text{CO}_3$ ?
- Q12) Discuss various methods for cleaning of glassware in biochemistry lab.
- Q13) Write short notes on :
- a) Standard solutions
  - b) pH indicator
- Q14) What is the role of medical technologist in a clinical lab?
- Q15) Write a short note on the safety measures which have to be employed in a clinical biochemistry lab.

### SECTION-C

- Q16) Discuss in detail what is Henderson-Hassel batch equation and what is its significance.
- Q17) Describe the principle and working of water distillation plant. List some precautions which have to be taken.
- Q18) What is Osmosis? What are its types? List some of its applications.

**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.**