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Total No. of Pages :02

Total No. of Questions : 09

B.Sc.(MLS) (2013 to 2017) (Sem.-1)

**BASICS OF BIOCHEMISTRY**

Subject Code :BMLS-105

M.Code : 48050

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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****1 Answer briefly :**

- a. Define normality.
- b. Define pH.
- c. Name **any five** indicators and their respective color at different pH.
- d. Define osmosis.
- e. Define dialysis.
- f. Give SI unit of mass, length and substance.
- g. Define primary standards.
- h. Write **any two** factors affecting osmotic pressure.
- i. Explain steps involved in cleaning borosilicate glassware.
- j. Define standard solutions.

### SECTION-B

2. Explain Henderson-Hasselbach equation.
3. Discuss various types of osmosis and also give their applications.
4. How will you prepare 300ml of N/20 Oxalic acid?
5. Discuss various steps involved in preparation of chromic acid solution.
6. Write short notes on Vant Hoff s equation.

### SECTION-C

7. Discuss various methods of preparing distilled water and also comment on its storage.
8. Describe the principle, working and maintenance of analytical balance.
9. Write detailed notes on :
  - a) pH meter
  - b) First aid

**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.**