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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (MLS) (Sem.-5)**  
**APPLIED HEMATOLOGY-I**

**Subject Code : BMLS-501-18**

**M.Code : 78368**

**Date of Examination : 12-12-2022**

**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**

**1. Write briefly :**

- a) What are a Coagulometer, and its uses?
- b) Define Synovial fluid.
- c) Define Standard Deviation along with its formula.
- d) What is haematology? For what purpose it is used.
- e) How you differentiate the accuracy from precision?
- f) Describe body fluids and write the names of the fluids in the body.
- g) What is internal and external quality control preparation?
- h) Enlist the functions of bone marrow.
- i) What is the normal range of urine excreted daily, and discuss its morphology?
- j) Elaborate on the term TLC, DLC, L.E cell and CSF.

### **SECTION-B**

2. Discuss the safety precautions that should be taken in haematology.
3. Explain the location and composition of pleural fluid.
4. Elaborate on the principle and procedure of coagulation.
5. Write down the composition and function of bone marrow.
6. How to manage biomedical waste in haematology labs?

### **SECTION-C**

7. Enumerate the preparation and staining of the smear.
8. Write the details about red cell anomalies and their morphological changes.
9. Explain the physiological variation of Hb, TLC, platelets and PVC (**any two**).

**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.**