

**Roll No.**

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**Total No. of Pages : 02**

**Total No. of Questions : 08**

**M.Sc. (Medical Microbiology) (Sem.-2)**

## HEMATOLOGY

**Subject Code : MMB-202-21**

**M.Code : 92125**

**Date of Examination : 14-12-22**

**Time : 3 Hrs.**

**Max. Marks : 70**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FIVE** marks each and students have to attempt any **SIX** questions.
3. **SECTION-C** will comprise of two compulsory questions with internal choice in both these questions. Each question carries **TEN** marks.

## SECTION-A

1. **Answer the following :**
  - a. Enlist the examples for anticoagulants.
  - b. Define hematology.
  - c. What is thrombopoiesis?
  - d. Give the clinical significance of hemoglobin.
  - e. What is the full form of ESR and its limit for adult?
  - f. Define platelets analyzer.
  - g. Give test for iron deficiency.
  - h. Enlist the disorder of white blood cells.
  - i. Write the mechanism for hemostasis.
  - j. Give FAB classification.

### **SECTION-B**

2. Elaborate blood and its composition.
3. Write the mode of action of heparin and citrates.
4. Write down the procedure for TLC and RBC.
5. Explain about cytochemical stains with examples.
6. Write the working and principle of ESR analyzer.
7. Briefly introduction of thalassemia.
8. Discuss about the disorders of white blood cells.
9. Explain about the classification of vascular disorder.

### **SECTION-C**

10. Elaborate hemorrhagic disorder with their mechanism and pathogenesis.

**OR**

Explain in detail account of disorders of red blood cells

11. Explain with principle, procedure and normal value for hemoglobin

**OR**

Elaborate about the thrombopoiesis and morphology of normal blood.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**