

**B.Sc. (MLS) (Semester – 4th)**  
**APPLIED HAEMATOLOGY-II**  
**Subject Code: BMLS1428**  
**Paper ID: [130519]**

**Time: 03 Hours** **Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A** **(2 marks each)**

- Q1. Attempt the following:
- a. Define hemophilia and enlist types
  - b. Difference between lymphoblast and myeloblast
  - c. Define Iron deficiency anemia
  - d. Enlist the Causes of Iron deficiency anemia
  - e. Write a short note on fibrinolytic system
  - f. Classify Hemolytic Anemias
  - g. Give applications of various Radioactive isotopes
  - h. Enlist risk factors for leukemia
  - i. Phases of Chronic Myeloid Leukemia
  - j. List the differences between extravascular and intravascular hemolysis

**Section – B** **(5 marks each)**

- Q2. Write a short note on Iron Metabolism
- Q3. Write a short note on Idiopathic Thrombocytopenic Purpura
- Q4. Write a short note on Radiation hazards and its prevention
- Q5. Write a short note on laboratory features of hemolytic anemia
- Q6. Write a short note on platelet function tests

**Section – C** **(10 marks each)**

- Q7. Define and classify Anemia. Laboratory features of Megaloblastic Anemia
- Q8. Define and classify leukemia's. Tabulate differences between leukemoid reaction and chronic myeloid leukemia
- Q9. Write a note on Disseminated Intravascular Coagulation, etiology, pathogenesis and investigations