Roll No…….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

B.Sc. (MLS) (Semester – 4th)
APPLIED HEMATOLOGY 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 Anemia.
b) What is decontamination?
c) Define Emulsification.
d) What is the primary function of Platelet?
e) What is the primary treatment for ALL?
f) Define leukemia.
g) Define lymphoma.
h) Define idiopathic.
i) Name the most common type of leukemia in adults.
j) Define Hemophilia.

Section – B **(5 marks each)**

Q2. Explain bleeding disorders.
Q3. What are the potential health risks associated with exposure to radioactive materials.
Q4. Explain vitamin B12 deficiency anemia.
Q5. Explain hyper fibrinolysis.
Q6. Describe the differences between acute & Chronic Leukemia.

Section – C **(10 marks each)**

Q7. Describe the difference between intrinsic and extrinsic pathway of blood coagulation.
Q8. Describe the properties, applications and safety considerations of radioactive isotopes.
Q9. Describe Thalassemia in detail.