

Exam Code: 8121  
Sub. Code: 41003

2124  
B. Voc. (Medical Lab Technology) FYUP  
First Semester  
MLT-103: Introduction to Hematology

Time allowed: 3 Hours

Max. Marks: 40

**NOTE:** Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) Define the hematology?
- b) What is the ABO system of blood group?
- c) Hemoglobin.
- d) Where platelets are present?
- e) What do you mean by normal hematology?
- f) What is the thalassemia?
- g) Role of RBCs.
- h) Bleeding disorder.

(8x1)

**UNIT - I**

II. a) Briefly describe the scope of hematology.

b) What is the lab organization of hematology?

(2x4)

III. a) Write in brief about the mechanism of blood clotting.

b) Briefly describe the functions of blood in human body.

(2x4)

**UNIT - II**

IV. a) Give the names of various anti-coagulants and their merits.

b) Write about the quality assurance in hematology.

(2x4)

V. a) Write the mode of actions of two anti-coagulant agents.

b) Briefly describe about the absolute hematology.

(2x4)

**UNIT - III**

VI. a) What are the RBCs abnormalities?

b) What is Anemia? What are causes of fatal anemia?

(2x4)

P.T.O.

(2)

- VII. a) Write about the various tests used to detect thalassemia in the hematology.  
b) Briefly describe the various features of myeloma. (2x4)

**UNIT - IV**

- VIII. a) What do you mean by bleeding disorder? Write about only one method to detect blood disorder.  
b) Write a short note on prothrombin time. (2x4)
- IX. a) Write in brief about the routine coagulation tests.  
b) Write about the plasma recalcification test. (2x4)

x-x-x