

B. Voc. (Medical Lab Technology)  
First Semester  
BMLT-105: Introduction to Hematology

Time allowed: 3 Hours

Max. Marks: 40

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

I. Answer the following: -

- a) What is the lymph?
- b) What is the normal value of hemoglobin in male?
- c) Write the life span of RBCs.
- d) What is the function of heparin?
- e) What do you mean by hematology?
- f) What is the normal white cell counts?
- g) Write the types of immune response.
- h) What is the bleeding disorder?

(8x1)

**UNIT - I**

II. a) Briefly describe the composition of blood.

b) What is the hemoglobin? Write the various functions of normal hemoglobin. (2x4)

III. a) What is fibrinolysis.

b) Describe in brief about the reticulocytes.

(2x4)

**UNIT - II**

IV. a) What are the anticoagulants? Write the merit and demerit of EDTA.

b) What are the quality parameters used in the hematology investigations.

(2x4)

V. a) Write difference between normal and absolute hematology?

b) Write the quality assurance in hematology.

(2x4)

**UNIT - III**

VI. a) What do you mean by anemia? Write only two types of anemia.

b) What is Thalassemia? Write about its diagnostic methods.

(2x4)

P.T.O.



(2)

- VII. a) What do you mean by multiple myeloma?  
b) What is the leukemia? Write about its detection method in hematology. (2x4)

**UNIT - IV**

- VIII. a) What are the clotting disorder?  
b) Write a short note on routine coagulation. (2x4)
- IX. a) What is the plasma recalcification? Write its clinical significance.  
b) Give the one method of diagnosis of bleeding disorder. (2x4)

x-x-x