

Exam Code: 1367
Sub. Code: 9410

2032
B. Voc. (Medical Lab Technology)
First Semester
MLT-105: 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. Describe the following: -

- a) What are the RBCs?
- b) What is the normal value of hemoglobin in female?
- c) Write the life span of RBCs.
- d) What is the function of anticoagulants?
- e) What do you mean by Rh factor?
- f) What is the cause of haemolytic anaemia?
- g) Write the types of immune response.
- h) What is the clotting time?

(8x1)

UNIT - I

- II. a) Briefly describe the laboratory organization of a hematology lab.
b) What is the hemoglobin? Write the various functions of normal hemoglobin. (2x4)
- III. a) What is haemostasis? Give outline of blood clotting process.
b) Describe in brief about the reticulocytes. (2x4)

UNIT - II

- IV. a) What are the anticoagulants? Write their merit and demerit of only two.
b) What are the quality parameters used in the hematology Investigations. (2x4)
- V. a) Write difference between normal and absolute hematology?
b) Write the mode of action of EDTA as anti- coagulant. (2x4)

P.T.O.

(2)

UNIT - III

- VI. a) What do you mean by RBCs abnormalities? Write only two tests to diagnose them.
b) What is thalassemia? Write about its diagnostic methods. (2x4)
- VII. a) What do you mean by hematological diseases?
b) What is the leukemia? Write about its detection method in hematology. (2x4)

UNIT - IV

- VIII. a) What are the bleeding disorder?
b) Write a short note on routine coagulation. (2x4)
- IX. a) What is the partial thromboplastin time? Write its clinical significance.
b) Give the various precaution taken during the blood coagulation tests. (2x4)

x-x-x