

No. of Printed Pages : 4  
Roll No. ....

221924

**2nd Year / DMLT, DMLT  
(For Speech and Hearing Impaired)**

**Subject : Applied Hematology**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 In leukocytosis, the level of WBC  
a) increases                      b) decreases  
c) both of these                d) none of these
- Q.2 In case of WBC counting, the ratio of blood: diluting fluid is  
a) 1:200                          b) 2:200  
c) 2:100                          d) 1:20
- Q.3 Which one is used for Hb. estimation  
a) Haemoglobinometer      b) Centrifuge  
c) Glucometer                d) None of these

(1)

221924

Q.4 Counting chamber used for cell counting are

- a) Neubauer counting chamber  
b) Rosenthal counting chamber  
c) Speirs Levy counting chamber  
d) All

Q.5 Which method is used for hb. estimation

- a) Sahli's Method              b) Giemsa stain  
c) DAM Method                d) None of these

Q.6 In haemoglobin, globin in part.

- a) Iron                              b) Protein  
c) Calcium                        d) All of these

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write the name of degradation products of haemoglobin.
- Q.8 Define Erythropoiesis.
- Q.9 Define precision.

(2)

221924

- Q.10 Mention the normal range of eosinophils in human blood.
- Q.11 Name two methods used for Hb estimation.
- Q.12 Mention the main function of haemoglobin in the blood.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain briefly about the diluting fluid employed for counting of RBC.
- Q.14 How the synthesis of haemoglobin takes place.
- Q.15 Mention the technique used for counting of white blood cells.
- Q.16 Draw a diagrammatic representation of Neubauer counting chamber.
- Q.17 Write a short note on thalassemias.
- Q.18 Write a note on External quality control
- Q.19 Give the procedure of cyanmethaemoglobin method.
- Q.20 Mention the clinical significance of DLC.
- Q.21 Describe a method of preparation of blood smear.

- Q.22 Describe the different type of errors involved in hemocytometry.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write about various abnormalities associated with morphological characteristics of blood cells.
- Q.24 Describe the principle and operation of automated blood cell counters.
- Q.25 Give the method of counting of WBC using Leishman's stain.