

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

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.

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221924

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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.