

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

221916

**1st Sem. / DMLT**

**Subject : Introduction to Haematology**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Function of erythrocyte includes

- a) Acid base balance
- b) Maintains viscosity of blood
- c) Ion balance
- d) All

Q.2 Plasma without fibrinogen is termed as

- a) Hemoglobin                      b) Hemolysed RBCs
- c) Red blood cells                d) Serum

Q.3 Counting chamber used for counting blood cells

- a) Neubauer chamber
- b) Burkner chamber
- c) Fuchs-Rosenthal chamber
- d) All

(1)

221916

Q.4 Site of venipuncture for collection of sample is located at

- a) Median cubital vein
- b) Arm with intravenous line
- c) Veins on back of hand and neck
- d) All

Q.5 Upon treating with Romanowsky stains red cells stained

- a) Orange color                      b) Black color
- c) Pink color                         d) Blue color

Q.6 During erythropoiesis which of the cells are formed first

- a) Pronormoblast                      b) Early normoblast
- c) Reticulocyte                        d) Late normoblast

**SECTION-B**

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

Q.7 Tell the sites of poiesis for children and adults

Q.8 Give the full form of EDTA

Q.9 Identify the additive present in blue colored vacutainer

(2)

221916

- Q.10 Name the organ secreting erythropoietin
- Q.11 Define the term phlebotomy
- Q.12 Name the test performed for blood screening procedures

### SECTION-C

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

- Q.13 Discuss about any four anticoagulants stating their principle of action and therapeutic indications
- Q.14 Describe the methods for estimation of hemoglobin
- Q.15 Why determination of red cell indices is considered clinically significant.
- Q.16 Distinguish between capillary and venous collection of blood samples
- Q.17 Describe the method of preparation of an ideal blood film
- Q.18 How capillary and venous collection of blood samples does differ?
- Q.19 Tell the different ways of disposal for blood and related products
- Q.20 List the different type of glassware used in hematology laboratory.

(3)

221916

- Q.21 Infer the hematological investigations and cytochemical reactions in chronic lymphocytic leukemia
- Q.22 List four abnormalities found in RBCs along with underlying cause

### SECTION-D

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

- Q.23 Classify the Romanowsky stains. Describe the principle and infer the results obtained for different stains
- Q.24 Describe the different methods used for the measurement of ESR values. Analyze the significance of such determinations
- Q.25 Summarize the various anticoagulants signifying their color codes, mode of action, uses, relative advantages and disadvantages

(3180)

(4)

221916