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221916

1st Sem. / DMLT

Subject : Introduction to Haematology

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(6 \times 1 = 6)$

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) Burker chamber
- c) Fuchs-Rosenthal chamber
- d) All

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. $(6 \times 1 = 6)$

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

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- 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.

- 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