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221916

Roll No.....

Sem. 1 DMLT
Sub : Introduction to Haematology-1st

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

Q.1 The study of Blood and its components is called.....?

- a) Haematology b) Microbiology
- c) Histology d) None of these

Q.2 What is the normal life span of RBC?

- a) 180 days b) 120 days
- c) 45 days d) None of these

Q.3 Which one is a natural anticoagulant and found inside human body?

- a) EDTA b) Sodium citrate
- c) Heparin d) None of these

Q.4 The incision of the vein for blood collection is called _____?

- a) Phlebotomy b) Anatomy
- c) Microtomy d) None of these

Q.5 Which one is used to puncture the skin to collect capillary blood?

- a) Needles b) Lancet
- c) Both A & B d) None of these

Q.6 Which one acts as a fixative in staining solution?

- a) Azure b) Methanol
- c) Eosin d) None of these

Section-B

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

Q.7 Formation of Leukocytes inside human body is known as _____.

Q.8 Explain EDTA & CPT.

Q.9 Which vein is most suitable for venipuncture?

Q.10 Which anticoagulant is mostly used for CBC?

Q.11 Define Thrombopoiesis.

Q.12 What is the appropriate pH to produce the Romanowsky effect?

Section-C

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

Q.13 Define blood and write their composition.

Q.14 Draw and explain any four glassware used in Haematology Laboratory.

Q.15 Write the difference between Serum & Plasma.

Q.16 Draw RBC and WBC Pipette and write their uses.

Q.17 Explain EDTA & Sodium Citrate with mode of action and merits and Demerits.

Q.18 Write the materials & Equipments required for venipuncture.

Q.19 Describe Vacutainer system for blood collections.

Q.20 Write the procedure of preparation of Thin blood film.

Q.21 Describe safety precautions during capillary puncture.

Q.22 Describe Granulocyte series of Leukopoiesis.

Section-D

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

Q.23 Describe various calcium chelators anticoagulants with mode of action, merits and demerits.

Q.24 Explain Romanowsky Stain in Detail.

Q.25 Explain Requirement Principle and procedure for venous blood.