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B.Sc.(MLS) (2014 to 2017) (Sem.-4)
APPLIED HEMATOLOGY

Subject Code: BMLS-403 M.Code: 48118

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1) Answer briefly:

- a) What are transferrins?
- b) What is the nature of alpha and beta rays?
- c) Name vitamin K dependent factors.
- d) List the function of transcobalmins.
- e) Define megaloblast?
- f) What is the function of vWF?
- g) Name some agonists of platelet aggregation.
- h) What is the function of tPA?
- i) What is full form of MPO in cytochemical staining?
- i) What are leukamoid reactions?



SECTION-B

- 2) Give the principle, procedure and clinical significance of APTT/PTTK.
- 3) What is half life of radioactive isotopes? What is its importance?
- 4) Discuss how iron is transported and absorbed in our body.
- 5) Give the principle, procedure and clinical significance of plasma Hb.
- 6) Write short note on use of cytochemical staining for the diagnosis of leukemias.

SECTION-C

- 7) Write down the steps involved in the culture of cells for Karyotyping. Discuss various staining techniques employed.
- 8) Discuss the mechanism of normal fibrinolysis. Give various tests for hyperfibrinolysis.
- 9) What is role of G6PD in our system in relation to hematology? Discuss HMP pathway and the tests conducted for demonstrating G6PD deficiency.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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