Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 09

B.Sc. (MLS) (Sem.–4)

BASIC HAEMATOLOGY-II

Subject Code : BMLS-402-18

M.Code : 77710

Date of Examination : 07-07-22

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **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 all of them :

a) What are the three functions of hemoglobin?

b) Write down formula of HbA_2.

c) What is the function of thrombin?

d) Which test is used to check the capillary fragility?

e) Give the concentration of calcium chloride used in coagulation studies.

f) Discuss properties of foetal haemoglobin.

g) Write down the factors exclusively involved in extrinsic pathway.

h) Discuss the mechanism of action of anticoagulants used in coagulation test.

i) What is the percentage of various normal heamoglobin in an adult?

j) What is alpha thalassaemia?

SECTION-B

2) Discuss various types of haemoglobin electrophoresis. Give application of each method.

3) Give the procedure, principle and clinical significance of performing PT.

4) Write a short note on fibrinolytic system.

5) Discuss the intrinsic method of blood coagulation and give some deficiency diseases associated.

6) Give the procedure for haemolysate preparation.

SECTION-C

7) What do you know by homeostasis? Discuss normal haemostatic mechanism of blood coagulation.

8) Give the procedure, principle and clinical significance of performing bleeding and clotting time.

9) What is Heamoglobinopathy? Discuss the mechanism and various tests conducted for the diagnosis of sickle cell anemia.

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.