

Roll No.

Total No. of Pages : 02

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**B.Sc. (MLS) (Sem-4)**  
**BASIC HAEMATOLOGY-II**  
Subject Code : BMLS-402-18  
M.Code : 77710  
Date of Examination : 30-05-2023

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 Briefly :**

- a) What is the function of antithrombin III?
- b) Name some abnormal haemoglobin.
- c) What is beta thalassaemia?
- d) What is the use of citric acid gel electrophoresis?
- e) What are the three functions of hemoglobin?
- f) What is the percentage of various normal haemoglobin in an adult?
- g) Define APTT
- h) Hemoglobin
- i) Abnormal haemoglobins
- j) Name coagulation factors involved in intrinsic pathway.

### **SECTION-B**

2. What are various theories of blood coagulation?
3. Discuss the principle and procedure of haemoglobin electrophoresis.
4. What are various methods to measure unstable haemoglobin?
5. Discuss various vitamin K dependent coagulation factors.
6. Discuss the methods, procedure and importance of clotting time.

### **SECTION-C**

7. What is Haemoglobinopathy? Discuss the mechanism and various tests conducted for the diagnosis of sickle cell anaemia.
8. Classify various coagulation factors. Give their physiological properties.
9. Write a brief note on Screening coagulation tests.

**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.**