Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (MLS) (Sem.-3)

BASIC HEMATOLOGY & HEMATOLOGICAL TECHNIQUES-I

Subject Code : BMLS-301-18

M.Code: 93327

Date of Examination : 11-01-23

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. Write briefly :
 - a) What is the function of erythropoietin?
 - b) What is advantage of Westergren's tube?
 - c) Give the name and composition of leucocyte count diluents.
 - d) Define reticulocyte.
 - e) Why RBC shape in biconcave?
 - f) What is importance of hematology lab?
 - g) Give Maturational Sequence of Thrombocyte.
 - h) What are HSCs?
 - i) Name diluents used for absolute eosinophil count.
 - j) What is the principle of Sahli's method for haemoglobin estimation?

SECTION-B

- 2. What is supravital staining? Give its importance in haematology laboratory.
- 3. Discuss principle, procedure and results of Wright's stain.
- 4. Discuss the principle and importance of various analyzers used in haematology lab.
- 5. Define each of the erythrocyte indices: Mean Corpuscular Volume (MCV), Mean Corpuscular Haemoglobin (MCH), and Mean Corpuscular Haemoglobin Concentration (MCHC).
- 6. Name the sites of erythropoiesis from the early embryonic stage of development until fully established in adults.

SECTION-C

- 7. Discuss various types of blood collection methods. Give the advantages and disadvantages of each.
- 8. Describe atleast four haemoglobin estimation methods and explain the purpose of each procedure.
- 9. Discuss principle, procedure and clinical significance of differential leucocyte count.

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.