

B.Voc Medical Laboratory Technology
Subject: Basics of Clinical Haematology – I
Subject Code: MLT-501
Semester: Second
July 2022
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

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SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. What are anticoagulants?
- B. What is the normal range of Haemoglobin in men?
- C. Name any two Romanowsky stains?
- D. Define Leucopoiesis?
- E. What is the normal range of Platelet Count?
- F. What is a difference between Serum and Plasma?
- G. The anticoagulant used for blood sugar estimation is _____.
- H. What is vacutainer?
- I. Howell-Jolly bodies are seen in _____.
- J. Enumerate blood indices.

SECTION –B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Describe the principle and working of Haematology Cell counters.
2. Explain different methods of collection of Blood in Heamatology.
3. Describe the mechanism of Hemopoiesis.
4. What is Hemoglobinometry? Describe different methods of Hemoglobin estimation.
5. Elaborate the preparation, staining and uses of Thick and Thin smears.
6. Explain the mechanisms of action, advantages and disadvantages of any five anticoagulants used in Haematology.
7. Write the principle, procedure, calculation and significance of WBC counting, using Neubauer Counting chamber.
8. Describe the Organisation and important Instruments used in Hematology laboratory. What laboratory safety guidelines are followed in Haematology laboratory?

==END OF THE PAPER==