

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Basics of Clinical Hematology-II
Subject Code: MLT601
Semester: Third
January 2021
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 short answers type in nature. Attempt any 5 questions. Each question carries 1 mark.
3. Section B comprises 8 essay type questions. Attempt any 5 questions. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything in the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number										

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10 x 1 = 10 Marks)

- A Physiological and Pathological variation in RBC Count.
- B Write about Complete Blood Count (CBC).
- C Neubauer Counting Chamber.
- D Red Cell Indices.
- E Clot retraction test.
- F Donor selection for Blood donation.
- G Significance of Stool examination.
- H MCV and MCH.
- I Protamine Sulphate test.
- J Working of Urine analyser.

SECTION –B (ESSAY TYPE QUESTIONS)

(5 x 5 = 25 Marks)

- Q1 What is Erythrocyte Sedimentation Rate (ESR)? Write about the factors affecting ESR.
- Q2 What is a Reticulocyte? How do you conduct a manual Reticulocyte count?
- Q3 What are the criteria for blood donor selection? What are the important points in pre and post donation counseling?
- Q4 Enumerate the various coagulation factors. What is the importance of bleeding time and clotting time?
- Q5 Write in detail about the steps involved in transportation of blood.
- Q6 What is a Coulter counter? Explain its uses and working principle.
- Q7 What is Rh Factor? Write in detail about the Rh blood grouping system.
- Q8 Write a note on anemia and its types. Describe in detail any two anemias.

*******END OF PAPER*******