

PG CBCS
M.Sc. Semester-I Examination, 2021
MEDICAL LABORATORY TECHNOLOGY (MLT)
PAPER: MLT 195 (PRACTICAL)
(PHYSIOLOGY AND HAEMATOLOGY LAB)

Full Marks: 50

Time: 4 Hours

Answer any TWO questions of the following:

2X25=50

1. i) Write the requirements and process of blood collection for the haematology assessment of a patient. (10)
- ii) Make a note on the processing steps of the blood plasma and serum separation from collected blood sample. (5)
- iii) Write the process of blood film preparation and Leishman staining on it. Write the precautions need to be taken by analyst during blood film preparation and staining. (2+6)+2
2. i) Write the principle, apparatus and materials required, procedure, merits and demerits of haemoglobin estimation by Drabkin's method. (3+5+9+3)
- ii) How will you interpret the results obtained after haemoglobin estimation? (5)
3. i) Write the principle, apparatus required, patient preparation, procedure and interpretation of blood pressure measurement. (3+3+3+10+2)
- ii) Write the procedure of pulse rate measurement. (4)
4. i) Make a list of the requirements, discuss the procedure and state the method of calculation of the total count of WBC using Neubauer chamber. (3+7+3)
- ii) Describe the procedure, calculation and limitations of the differential count of WBC. (6+3+3)
5. i) Describe the principle, apparatus and materials required, procedure, and interpretation for the detection of the sickle cell anaemia. (3+3+9+4)
- ii) Describe the requirements and procedure of bleeding time determination. (2+4)
6. i) Describe the principle, apparatus and materials required, procedure, and interpretation for the determination of Packed cell volume.
- ii) How will you determine the Osmotic fragility of RBC? 3+(4+2)+6+5=5
