

**Second Year B.Sc MLT Degree Supplementary Examinations  
November 2022  
Haematology II and Clinical Pathology**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers.*
- *Draw Diagrams wherever necessary.*

**Essays**

**(2x10=20)**

1. What is a Romanowsky stain. Give examples. Write the composition, preparation, uses, advantages and disadvantages of one commonly used Romanowsky stain in hematology
2. Define thrombocytopenia. List the causes of thrombocytopenia. Describe three methods of enumeration of platelet count, their advantages and disadvantages

**Short notes**

**(10x5=50)**

3. Hemostasis
4. Myelopoiesis
5. Acute leukemia
6. Urine chemistry in normal and disease states
7. What are the characteristics of normal pleural fluid
8. Define pancytopenia. List four causes
9. Lab diagnosis of Disseminated intravascular coagulation
10. Describe the common parasites seen in stool examination with neat diagram
11. Reticulocyte
12. Blood picture in Chronic myeloid leukemia

**Answer briefly**

**(10x3=30)**

13. What is prothrombin time. List two cause of prolonged PT
14. Define macrocyte. Write two causes of macrocytosis
15. What are the causes of positive Benzidine test and false positive Benzidine test
16. What is buffy coat. Name two uses of buffy coat
17. Name three red cell indices and their normal values
18. Name two methods of measurement of Hb by cell counters Write their principle
19. Name the types of Hb seen in normal adult and in fetus
20. Name three hematological investigations done to diagnose Chronic lymphocytic leukemia
21. What is glycosuria. Name two causes
22. What is ESR. Write down the stages of ESR

\*\*\*\*\*