

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations  
April 2023  
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. Define anemia. Write the classification of anemia. Describe the peripheral blood picture in sickle cell anemia
2. Describe the physical and microscopical examination of semen. How will you perform sperm count?

**Short notes**

**(10x5=50)**

3. Screening tests of coagulation
4. Demonstration of LE cells
5. Chronic lymphocytic leukemia
6. Urinary casts
7. What are the components of normal bone marrow
8. What are the differences between exudate and transudate
9. Name four cytochemical stains and discuss their application in hematology
10. Describe the abnormal findings seen in CSF in Bacterial meningitis
11. Packed cell volume
12. Blood picture in Iron deficiency anemia

**Answer briefly**

**(10x3=30)**

13. Define aplastic anemia. List the hematological findings in aplastic anemia
14. Define thrombocytopenia. List two causes of thrombocytopenia
15. What is hemoglobinuria. How is it detected
16. Define Disseminated intravascular coagulation Name two causes of DIC
17. What is a reticulocyte What are the normal values
18. Name two methods of detecting glucose in urine and two causes of glycosuria
19. Name three red cell indices and their normal values
20. Name three hematological investigations done to diagnose megaloblastic anemia
21. Write the principle of automation of cell counter for platelet count
22. Name Four Romanowsky stains. Write the principle of staining of one of them

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