

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations  
January 2025**

**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. Classify hemolytic anemia. What are the tests used in the diagnosis of hemolytic anemia. Briefly explain the hemolytic anemia blood picture (1+4+3+2)
2. Describe semen analysis. What is its importance in a case of infertility (7+3)

**Short notes**

**(10x5=50)**

3. Perl's staining
4. Microscopic examination of urine
5. Stool examination for parasites
6. Rothera's test
7. Urine specific gravity determination methods
8. Leukemoid reactions
9. Hb electrophoresis
10. Dipstick method for glycosuria
11. Partial thromboplastin time
12. Automation in hematology lab

**Answer briefly**

**(10x3=30)**

13. Examination of synovial fluid
14. Peripheral smear reporting format
15. Blood findings in acute and chronic leukemia
16. Fouchet's test
17. Philadelphia chromosome
18. Disseminated intravascular coagulation
19. Name four haemoparasites. How are they detected
20. Paracentesis
21. Rivalta's test
22. Froin's syndrome

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