

**Second Year B.Sc MLT Degree Supplementary Examinations  
September 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. Describe semen analysis
2. Classify Anemia. Describe the pathophysiology and lab investigations done in Megaloblastic Anemia

**Short notes**

**(10x5=50)**

3. Test for differential diagnosis of Jaundice
4. Urine specific gravity detection methods.
5. Special stains used in sputum examination
6. Dipstick in urine analysis
7. Lab diagnosis of sickle cell anemia
8. Acute myeloid leukemia.
9. Perl's Prussian blue staining and its utility in differential diagnosis of Anemia
10. Occult blood in stool
11. Principle of automated blood cell counter
12. Indications for bone marrow transplantation giving emphasis to peripheral blood stem cell transplantation

**Answer briefly**

**(10x3=30)**

13. Philadelphia Chromosome.
14. Enumerate blood parasites and their detection methods
15. Bleeding Time.
16. CSF Cell count
17. Ketone bodies in Urine
18. Prothrombin Time
19. Urine Microscopy
20. Transudate and Exudate
21. Myeloperoxidase Stain
22. Lab investigations in Hemolytic Anemia

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