

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
December 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. Describe the physical and microscopical examination of semen. How will you perform sperm count
2. Define and classify hemolytic anemias. Describe the lab diagnosis of hemolytic anaemias. Draw the peripheral blood picture in sickle cell anaemia

Short notes

(10x5=50)

3. Reticulocyte count
4. Myelopoiesis
5. Activated partial thromboplastin time
6. Buffy coat preparation
7. Principle of automated cell counters
8. Plasma cell myeloma
9. Haemoglobin electrophoresis
10. Direct Coomb's test
11. Cytochemical stains and its applications
12. Automation in hematology

Answer briefly

(10x3=30)

13. Stages of erythrocyte sedimentation
14. Cyanmet hemoglobin method
15. Tests for ketone bodies in urine
16. Nucleated red cells in blood smear
17. Vacutainer tubes
18. Hams test
19. Stool concentration methods
20. Sputum AFB staining
21. Neutrophilia
22. Philadelphia chromosome

CORRECTION / NO-CORRECTION FILE
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QPCODE: 205012

Dated: 08-12-2025

Question No.10

Replaced with "Transudates and Exudates."

Question No.12

Replaced with "Prothrombin time."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS