

**Second Year B.Sc MLT Degree Supplementary Examinations
April (December), 2020**

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 leukemia. Classify acute leukemia. Describe the blood and bone marrow findings in acute myeloid leukemia.
2. List the preservatives of urine. Describe in detail the microscopic examination of urine with special mention to casts and crystals.

Short notes

(10x5=50)

3. Perls stain and its significance.
4. List commonly used anticoagulants and describe the mode of action of each.
5. Activated partial thromboplastin time (APTT).
6. Plasma cell myeloma.
7. Pregnancy test.
8. Platelet function tests.
9. Laboratory diagnosis of iron deficiency anemia.
10. Name the body fluids. List the investigations done on body fluids.
11. Hb electrophoresis.
12. Semen analysis.

Answer briefly

(10x3=30)

13. Fecal fat detection.
14. How to prepare thick blood film. What are the uses.
15. Laboratory diagnosis of hemophilia.
16. Define eosinophilia. List two causes.
17. Describe LE cell.
18. List the ketone bodies. How to demonstrate ketonuria.
19. List the red cell indices. Mention the normal values of each.
20. Explain the difference between serum and plasma. Name two tests performed on plasma.
21. Explain D-Dimer. Write its significance.
22. Agranulocytosis.
