

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
October 2019**

Haematology II and Clinical Pathology

Time: 3 Hours

Total Marks: 100

- **Answer all Questions.**
- **Draw Diagrams wherever necessary.**

Essays

(2x10=20)

1. Describe the preparation of a good quality peripheral smear. List the qualities of an ideal blood smear. Add a note on the examination of peripheral smear with reporting format.
2. Define leukemia. Classify leukemia. Describe in detail the role of cytochemical stains in the diagnosis of leukemias.

Short notes

(10x5=50)

3. Automation in hematology
4. Prothrombin time
5. Define disseminated intravascular coagulation (DIC). Write the laboratory diagnosis of DIC.
6. Laboratory diagnosis of β thalassemia major
7. With the help of diagrams explain the morphology of malarial parasites
8. Sickling test
9. Bence-Jones Protein
10. The examination and interpretation of total and differential count of CSF
11. Blood picture of chronic myeloid leukemia
12. Polycythemia

Answer briefly

(10x3=30)

13. Hams test
14. The principle of Leishman stain
15. Define eosinophilia. Write the methods of estimation of absolute eosinophil count
16. Write the urine examination findings in hemolytic jaundice
17. Agranulocytosis
18. List crystals in urine – method of detection and its significance
19. Describe LE cell
20. List three causes of microcytic hypochromic blood picture
21. Pregnancy tests
22. Semen analysis