

QP Code: 101384

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
August 2024
(Pathology)**

Paper I - Hematology

Time: 3 hrs.

Max. 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 table/diagrams/flow charts wherever necessary*

Essays:

(10x10=100)

1. Describe methods of estimation of reticulocyte count. What is reticulocyte index
2. Describe abnormalities in red cell morphology seen in a peripheral smear.
3. Discuss the investigation of a case of suspected thalassemia.
4. Describe the methods of estimation of Erythrocyte Sedimentation Rate (ESR).
5. Describe the first line tests used to investigate a case of suspected bleeding disorder.
6. Describe the pathophysiology and laboratory diagnosis of megaloblastic anemia.
7. Explain the principle of Polymerase Chain Reaction (PCR) and mention its uses in hematology.
8. Explain the differential count of leucocytes in automated blood cell counters.
9. WHO classification of AML (2016).
10. Discuss the immunological markers used in the diagnosis of lymphoproliferative disorders.
