

QP Code: 101384

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations December 2020  
(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. Explain the etiology and laboratory diagnosis of Iron deficiency anemia.
2. Discuss the laboratory investigations in a case of bleeding disorder.
3. Extramedullary haematopoiesis
4. Discuss about the automated haematology analyser with a note on its advantages and sources of error.
5. Describe the methods of preparation of bone marrow aspirate. Enumerate the stains along with procedure.
6. Write the principle of HPLC and its applications in haematology.
7. Describe the principle and applications of polarising microscope.
8. Use of flow cytometry in red cell and platelet disorders.
9. Serum protein electrophoresis and immunofixation and its clinical applications
10. Describe the disorders of leucopoiesis.

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