

**First Year B.Sc MLT Degree Supplementary Examinations
February 2020**

Basic Medical Laboratory Sciences & Hematology

(2016 Scheme)

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 table/diagrams/flow charts wherever necessary*

Essay**(2x10=20)**

1. Enumerate anticoagulants. Discuss their functions, uses, advantages and disadvantages. (2+8)
2. What is the principle of Romanowsky staining. Briefly describe the components, methods of preparation and procedure of Leishman staining. (2+8)

Short notes**(10x5=50)**

3. Blood collection methods.
4. Electron microscope.
5. Supravital staining.
6. Methods of estimation of ESR
7. Bulk dilution technique.
8. Detection of abnormal hemoglobin's.
9. Principles of automated blood cell counters.
10. Role of laboratory in health care delivery.
11. Differential leucocyte count.
12. Thick smear preparation and staining.

Answer briefly**(10x3=30)**

13. Absolute eosinophil count.
14. Buffy coat preparation.
15. Detection of malaria
16. Platelet count
17. Haemocytometers
18. Micrometry.
19. Care of microscopes.
20. Hematopoiesis.
21. Abnormal blood cells.
22. Collection and preparation of bone marrow smears.
