

**First Year B.Sc MLT Degree Supplementary Examinations  
February 2019**

**Basic Medical Laboratory Sciences & Hematology**

**(2016 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all questions.
- Draw diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Define anemia – discuss briefly different methods of estimation of hemoglobin. (2+8)
2. What are the different types of blood smear preparations. Briefly discuss how differential leucocyte count is performed. (2+8)

**Short notes**

**(10x5=50)**

3. Reticulocyte count
4. Phase contrast microscope
5. Role of laboratory in health care delivery
6. Packed cell volume
7. Laboratory hazards and safety measures
8. Erythropoiesis
9. Thrombocytopenia
10. Automated blood cell counters
11. Detection of malaria
12. Bone marrow examination

**Answer briefly**

**(10x3=30)**

13. ESR estimation
14. Haemocytometry
15. Capillary blood collection
16. Megakaryocyte
17. Micrometry
18. Care of laboratory equipments
19. Standard operative procedure
20. Release of medical information
21. Absolute eosinophil count
22. Abnormal cells in peripheral blood.