

**First Year B.Sc MLT Degree Supplementary Examinations,
September 2017**

BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY

(Common for 2010 and 2015 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the cleaning of glassware in the laboratory. List the common cleaning solutions and describe the preparation of any one of them. How laboratory equipments are carefully maintained.
2. Describe the methods of blood collection. Discuss the various anticoagulants and their uses.

Short notes

(10x5=50)

3. Handling accidental contamination of lab staff by infective material
4. Types of microscope objectives and their uses
5. Principle of Romanowsky stains
6. Methods for hemoglobin estimation
7. Types of hemoglobin
8. Methods of differential leucocytes count (DC)
9. Stages of erythrocyte sedimentation rate (ESR)
10. Osmotic fragility test
11. Preparation of Leishmann's stain
12. Uses and advantages of an automated blood cell counter

Answer briefly

(10x3=30)

13. Use of common balance
14. Grades of glass wares
15. Dark field microscopy
16. Uses of micrometry
17. Phenolic antiseptics
18. Thick smear preparation
19. Describe an eosinophil with a diagram
20. Sites of bone marrow aspiration
21. Fate of platelets in the normal human being
22. Cells in myelopoiesis