

## First B.Sc MLT Degree Supplementary Examinations, March 2013

## BASIC MEDICAL LABORATORY SCIENCE &amp; HAEMATOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

## Essay

(2x10=20)

1. Describe in detail the different types of microscopes and their specific uses.
2. What are the advantages and disadvantages of using disposable laboratory wares.  
Add a note on its disposal after the use.

## Short notes

(10x5=50)

3. Methods of ESR estimation
4. Indications for bone marrow study
5. Abnormal hemoglobin.
6. Buffer solutions in staining.
7. Universal safety precaution
8. Sampling errors
9. Erythroid cell maturation and their abnormalities
10. Preparation and use of buffy coat smear
11. Preparation of bone marrow smears
12. Three part automated cell counter

## Answer briefly

(10x3=30)

13. EDTA
14. Normal cells in a blood smear
15. NRBC correction
16. Sodium citrate solution
17. Cleaning of glassware in the laboratory
18. Mean corpuscular hemoglobin concentration
19. Kleihauer's test
20. Uses of WBC pipette
21. Chromatic aberration.
22. Rees Ecker fluid