

QP CODE: 105012

Reg No:.....

First Year B.Sc MLT Degree Supplementary Examinations, April 2014

BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Explain the general principle in lab safety. Mention the different lab hazards and describe the role of universal safety precautions in preventing these hazards.
2. What are the general principles of staining. Which are the Romanowsky stains. Describe the preparation and staining properties of Leishman's stain.

Short notes

(10x5=50)

3. Care of microscopes
4. Cleaning of lab wares
5. Glass blowing techniques for preparation of lab wares
6. Erythropoiesis
7. Anticoagulants
8. Types of hemocytometers
9. Abnormal cells in peripheral smear
10. Hematocrit(PCV)
11. Supra vital staining
12. stages of sedimentation in ESR

Answer briefly

(10x3=30)

13. Numerical aperture
14. Functions of WBCs
15. Arterial blood collection
16. Sickling phenomenon
17. Histograms of RBC, WBC and platelet counts
18. Neutrophils- definition and causes
19. Drabkin's solution
20. HbF demonstration in RBC's
21. Mention the Functions of platelets and draw a neat labelled diagram of Megakaryocyte
22. Separation of plasma and serum for investigations
