

**First B.Sc MLT Degree Examinations, September 2013**

**BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Describe the different methods of blood collection.
2. Enumerate in detail, how the total leucocytes count is done. Mention the reasons for false low and high leucocytes counts.

**Short notes**

**(10x5=50)**

3. Supra vital staining
4. Storage and safe use of corrosive chemicals
5. Leishman stain
6. Classification of microscopes
7. Packed cell volume
8. Development of a mature neutrophil.
9. EDTA (Ethylene Diamine Tetra-acetic Acid)
10. Cleaning of glass slides for blood smear preparation.
11. Erythrocyte sedimentation rate
12. Advantages of various disposable lab wares.

**Answer briefly**

**(10x3=30)**

13. Megakaryocyte.
14. Preparation of anti coagulated bottle
15. Platelet count
16. Mean corpuscular hemoglobin (MCH)
17. Thick smear preparation
18. Sickling test
19. Normoblast
20. Sahli's hemoglobinometer
21. First aid in alkali splashes in the eye
22. RBC pipette

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