

**QP CODE: 105012**

**Reg No:.....**

**First B.Sc (MLT) Degree Examinations, September 2012**

**BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Explain the functions, uses, advantages and disadvantages of ethylene diamine tetra-acetic acid (EDTA) and double oxalates (4+2+2+2=10)
2. What are the different methods of hemoglobin estimation. Mention the advantages and disadvantages of two commonly used methods.

**Short notes**

**(10x5=50)**

3. Anticoagulants
4. Biomedical waste management
5. Phase contrast microscope
6. Different methods of blood collection
7. Reticulocyte count
8. Bone marrow smear preparation
9. ESR estimation.
10. Packed cell volume
11. Improved Neubauer counting chamber.
12. Universal safety precautions.

**Answer briefly**

**(10x3=30)**

13. Myeloblast.
14. Labeling of specimens.
15. Sickling test
16. Absolute eosinophil count
17. Thick smear preparation
18. Turk's fluid
19. Oil immersion objectives
20. Giemsa stain
21. Extramedullary hemopoiesis
22. Basophil .

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