QP CODE: 105012 Reg No:......

First Year B.Sc MLT Degree Examinations, September 2015

BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay (2x10=20)

- 1. Classify microscopes. Describe the principles of working of a compound microscope and explain the functions of the various components of this microscope.
- 2. Classify the glass wares used in the laboratory. Describe its composition, properties and grades of glass used in the glass wares.

Short notes (10x5=50)

- 3. Venepuncture
- 4. Buffer solutions for staining
- 5. Differential leukocyte count
- 6. RBC count
- 7. Bulk dilution methods for total count of WBC's
- 8. Errors in manual TC
- 9. ESR
- 10. Identification of abnormal hemoglobins
- 11. Reticulocyte count
- 12. Morphology of cells in myelopoieis.

Answer briefly (10x3=30)

- 13. Lancet
- 14. Types of injection needles and its uses
- 15. Citrate based anticoagulants
- 16. Preparation of bone marrow smears
- 17. Fuchs rosenthal counting chamber
- 18. Sickling phenomenon in RBC's
- 19. Normal parameters of red cells
- 20. Cyanmethaemoglobin method.
- 21. Sources of error in Leishman's staining
- 22. Lymphocytosis-definition and causes
