12 Re

First Year B.Sc MLT Degree Supplementary Examinations, May 2016

BASIC MEDICAL LABORATORY SCIENCE & HAEMATOLOGY

Time: 3 Hours

- Answer all Questions.
- Draw Diagrams wherever necessary.

(2x10=20)

Total Marks: 100

- 1. What is meant by erythrocyte sedimentation rate (ESR). Describe the methods for estimation of ESR. Mention the normal values and the clinical significance of ESR estimation.
- List the different types of microscopes. Describe the main parts of a bright field (Light) microscope. Briefly discuss the routine care and maintenance of a microscope.

Short notes

- 3. Supra vital staining
- 4. Prevention and management of 'biological hazards' in a laboratory
- 5. Cleaning of a Wintrobe's tube
- 6. Venous blood collection
- 7. Determination of red cell indices
- 8. Hematocrit estimation
- 9. Osmotic fragility test
- 10. Hemoglobin estimation by cyanmethemoglobin method
- 11. Romanowsky stains
- 12. Methods of platelet counting

Answer briefly

- 13. Eosinophilia- definition and causes
- 14. Turk's fluid
- 15. Stages of myelopoiesis in the marrow
- 16. Citrate anticoagulants
- 17. Correction in total leucocyte count for nucleated red cells (NRBCs)
- 18. Describe a megakaryocyte with the help of a diagram
- 19. Separation of serum from blood
- 20. Methods of dilution of blood for cell counting
- 21. Glass blowing technique and its use in laboratory
- 22. Essential reagents for an automated cell counter

(10x3=30)

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Essay

(10x5=50)