

First Year B.Sc MLT Degree Supplementary Examinations August 2019

Basic Medical Laboratory Science & Haematology

(Common for 2010 and 2015 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. How will you differentiate mature leucocytes in a blood smear. Describe the procedure of differential WBC count.
2. Describe the optical parts and principle of image formation of a light microscope

Short notes

(10x5=50)

3. RBC count
4. Collection and preparation of bone marrow smears
5. Disposable laboratory wares
6. Phase contrast microscope
7. Acid haematin method for the estimation of Hb
8. Erythropoiesis
9. Anticoagulants used in hematology
10. Automatic blood cell counters
11. Red cell indices
12. Fuchs Rosenthal counting chamber

Answer briefly

(10x3=30)

13. Preparation of Brilliant cresyl blue stain
14. Morphological changes of cells on storage
15. Sickling test
16. Glass blowing technique
17. Wintrobe's method for ESR
18. Hingleman fluid
19. May Grunwald Giemsa stain
20. Microhaematocrit
21. Micrometry
22. Normoblast
