

**First Year B.Sc MLT Degree Supplementary Examinations,
January 2017**

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. List the different types of 'haemocytometers'. Describe the procedure of total leucocyte count using a haemocytometer. Mention the normal total and differential leucocyte counts.
2. List the types of laboratory accidents. Describe the precautions to prevent chemical hazards. How do you manage chemical hazards.

Short notes

(10x5=50)

3. Cleaning of pipettes
4. Main parts of a light microscope
5. Principles of automated cell counters
6. Reticulocyte counting
7. Mean corpuscular volume (MCV)
8. Wintrobe's tube and its uses
9. Leishman staining
10. Common anticoagulants used in a laboratory
11. Vaccutainers
12. Sickling test

Answer briefly

(10x3=30)

13. Indications for bone marrow aspiration
14. Drabkin solution
15. Resolution of a microscope
16. Function of neutrophils and causes of neutrophilia
17. Draw a monocyte and a lymphocyte
18. Stages of erythropoiesis
19. Normal platelet count and two causes for thrombocytopenia
20. Buffy- coat smears
21. Disposable laboratory wares
22. Hayem's fluid for RBC count