

**First Year B.Sc MLT Degree Supplementary Examinations  
February 2020**

**Basic Medical Laboratory Science & Haematology**

**(Common for 2010 and 2015 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary.*

**Essay**

**(2x10=20)**

1. Describe the automated blood cell counter.
2. Describe the principle, types, parts and working of electron microscope.

**Short notes**

**(10x5=50)**

3. Plastic wares in laboratory.
4. Universal safety precautions.
5. Image formation in light microscope.
6. Phase contrast microscope.
7. Leishman staining
8. Hemocytometry.
9. Erythrocyte sedimentation rate
10. Cyanmethemoglobin Method.
11. Differential Leucocyte count.
12. Capillary blood collection.

**Answer briefly**

**(10x3=30)**

13. Preparation of RBC diluting fluids
14. Eye piece for reticulocyte counting.
15. Optical parts of a microscope
16. Laboratory hazards.
17. Describe myeloblast with a diagram.
18. Sickling test.
19. Buffy coat smear.
20. Erythropoiesis.
21. Cleaning of glassware.
22. Keilhauer Betke test for Hb F