QP CODE: 115012 Reg. No: ......

## First Year B.Sc MLT Degree Supplementary Examinations November 2021

## Basic Medical Laboratory Sciences & Hematology (2016 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)

- Explain haematocrit. Write the clinical significance and normal values. Describe the different methods and their principles of determining the haematocrit
- 2. Discuss the principles of automated blood cell counters. Name the red cell indices and write their normal values.

Short notes (10x5=50)

- 3. Haemoglobin
- 4. Leishman stain
- 5. Leucopoiesis
- 6. Anticoagulants
- 7. Types of microscope
- 8. Platelet count
- 9. Supravital stains
- 10. Methods of detection of HbF
- 11. Blood collection
- 12. Universal safety precautions

Answer briefly (10x3=30)

- 13. Thick smear
- 14. Stains for malarial parasite
- 15. WBC diluting fluid
- 16. Absolute eosinophil count
- 17. Vacutainers
- 18. Collection of bone marrow aspirate
- 19. Sickle cell preparation
- 20. Buffers used in staining
- 21. Laboratory glassware
- 22. Laboratory hazards

\*\*\*\*\*\*\*