

First Year B.Sc MLT Degree Supplementary Examinations May 2024

Basic Medical Laboratory Sciences & Hematology - I

(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)**

1. What is the principle of Romanowsky staining. Briefly describe components, methods of preparation and procedure of Leishman staining (2+8)
2. List the types of laboratory accidents. Describe the precautions to prevent chemical hazards. How do you manage chemical hazards (3+3+4)

Short notes**(10x5=50)**

3. Phase contrast microscopy
4. Sickling test
5. Packed cell volume
6. Myelopoiesis.
7. Preparation of cleaning solutions for lab ware
8. Resolution, magnification and numerical aperture of a microscope
9. Common anticoagulants used in laboratory
10. Iron deficiency Anemia.
11. ESR.
12. Bulk dilution technique

Answer briefly**(10x3=30)**

13. Mean corpuscular hemoglobin
14. Disposable laboratory ware
15. Vacutainer
16. Components of Pilot's fluid
17. Uses of WBC pipette
18. Myeloblast
19. Kleihauer test
20. Arterial blood collection
21. Eosinophilia- definition and causes
22. Preparation of plasma from blood
