

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations
May 2022**

Cytology & Transfusion Technology

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 diagrams wherever necessary*

Essay

(2x10=20)

1. Describe in detail use of membrane filters for concentration of cells suspended in fluids.
2. Describe in detail on preservation of RBC's in glycerol and liquid nitrogen.

Short notes

(10x5=50)

3. Organization of cytology lab.
4. Voluntary blood donors.
5. Flow cytometry in cytology.
6. Lewis antigen.
7. Preparation of smear with aspirated cell sample.
8. Indirect antiglobulin test.
9. Complications of aspiration cytology.
10. Major cross matching.
11. Sampling techniques in Gynec (Female Genital Tract) Cytology.
12. Materials and methods for blood collection in blood bank from Blood donors.

Answer briefly

(10x3=30)

13. Advantages and disadvantages of sputum cytology.
14. Rh typing procedure.
15. Various types of cytological specimens and requirements for cytological studies.
16. VDRL tests.
17. Cytology of chronic inflammatory process in cervical cytology.
18. RH (D) hemolytic disease of new born.
19. Rapid H & E stain in cytology.
20. Inheritance of ABO blood group.
21. Different types of epithelia.
22. Principles of direct Coomb's test