

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations
May 2023**

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. Discuss the technique of smear preparation, fixation and staining in cervical cytology.
Add a note on the different cell types seen
2. Describe in detail about the preparation of different blood components and their uses

Short notes

(10x5=50)

3. FNAC – uses and limitations
4. Biosafety measures in cytology lab
5. Stains used in air dried smears in Cytology
6. Concentration techniques in fluid specimen
7. Screening of donors in blood bank
8. Automation in cytology
9. Bombay blood group
10. Principles of investigating transfusion reactions
11. Quality control measures in cytology lab
12. Methods of Rh typing

Answer briefly

(10x3=30)

13. Plasmapheresis
14. Collection and preparation of sputum sample
15. Secretors.
16. Principle and applications of direct Coombs test
17. Anticoagulants used in blood transfusion
18. Coating fixatives
19. Major cross matching
20. CSF cytology
21. Quality control of reagents in blood bank
22. Prefixation