

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations
April 2024**

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 the various fixatives used in cytology and mention their advantages and disadvantages. Add a note on prefixation
2. Discuss the various transfusion reactions and methods of investigating transfusion reactions

Short notes

(10x5=50)

3. Liquid based cytology
4. Indirect Coombs test – applications, procedure and sources of error
5. Organization of cytology lab
6. Secretor status and its determination
7. Fresh Frozen Plasma
8. Quality control measures in cytology lab
9. Automation in blood banking
10. Blood group systems other than ABO system
11. Inflammatory lesions in cervical cytology
12. Sputum sample collection and processing

Answer briefly

(10x3=30)

13. Compatibility testing in blood transfusion
14. Uses of hormonal cytology
15. Hemoglobin screening in blood donors
16. MGG stain
17. Weak D
18. Technique of cell block preparation
19. Quality control of ABO reagents
20. Blueing
21. Bombay blood group
22. Advantages and disadvantages of FNAC