

**Third Year B.Sc MLT Degree Supplementary Examinations August 2025**

**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 preparation, processing, and staining of various fluid specimens for cytological examination
2. Discuss in detail about compatibility testing. List the causes of positive results in major cross matching

**Short notes**

**(10x5=50)**

3. Fixation of cytology specimens
4. Cytology lab safety
5. Fine needle aspiration cytology
6. Principal morphologic difference between normal cells and malignant cells.
7. Inflammatory process of the female genital tract
8. Bombay blood group
9. Fresh frozen plasma
10. Quality assurance in blood transfusion services
11. Antiglobulin tests
12. Blood transfusion reactions

**Answer briefly**

**(10x3=30)**

13. MGG stain
14. Eosin stain
15. Cell block preparation
16. Pick and smear technique
17. Weak D
18. Indication for platelet transfusion
19. Alum Haematoxylin
20. Cytospin
21. Maturation index
22. Regressive staining