

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations  
January 2026**

**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. What is exfoliative cytology. Describe method of collection of samples from female genital system for cytology. Describe the normal cytology of uterine cervix
2. Enumerate the different components prepared from whole blood. Describe the preparation, storage and uses of each one

**Short notes**

**(10x5=50)**

3. LISS and its use in blood bank
4. Cross matching in blood transfusion
5. Fixatives in cytology
6. Quality control in blood bank
7. Indirect Coomb's test
8. Cytospin preparation
9. May Grunwald Giemsa stain
10. Selection criteria of blood donor
11. International colour coding of blood labels
12. Dangerous O group

**Answer briefly**

**(10x3=30)**

13. Cryoprecipitate
14. Organisation of cytology lab
15. Maturation index
16. RBC additive solutions
17. Post donation advice to blood donor
18. Prozone phenomenon
19. Diseases transmitted through blood transfusion
20. Membrane filters in cytology
21. Mailing of cytology smears to central lab
22. Cytologic features of malignancy in cervical smear