

**Third Year B.Sc MLT Degree Supplementary Examinations October 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. Discuss on method of preparation, storage, shelf life and indications of fresh frozen plasma.
2. Describe the technique, smear preparation, staining and applications of FNAC

**Short notes****(10x5=50)**

3. Automation in blood banking.
4. Methods for erythrolysis in cytology.
5. Exfoliative Cytology.
6. Donor preparation and caring.
7. Principle of antiglobulin test.
8. ABO blood group system antigens.
9. Saccamanno's fixative.
10. Cytospin preparations.
11. Autologous blood transfusion.
12. Papanicolaou staining.

**Answer briefly****(10x3=30)**

13. Carnoy's fixative.
14. Bluing solutions.
15. Rapid stains for wet sediment.
16. Total dye content.
17. Adverse effects of apheresis.
18. Quality assurance in blood bank.
19. Antibody titration technique and scoring.
20. Management of spills of blood in laboratory.
21. Rh (D) hemolytic disease of the fetus and newborn.
22. Column agglutination system.

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