

**Third Year B.Sc MLT Degree Examinations October 2018****Cytology & Transfusion Technology****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay****(2x10=20)**

1. What is exfoliative cytology. Mention the applications of cytology and discuss the procedure of PAP staining. (2+5+3)
2. Describe the various laboratory tests done for voluntary donors and explain in detail about the storage and issuing of blood components. (3+7)

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

3. Direct Coombs test.
4. Sediment cytology.
5. Bombay blood group.
6. Cytospin; advantages and disadvantages
7. What are the plasma components for transfusion
8. Identification of cells in normal vaginal smear.
9. Biosafety precautions in the blood bank
10. Clinical significance of red cell antigens other than ABO
11. Giemsa stain.
12. Organization of blood donation camps

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

13. Define the terms affinity and avidity in antigen-antibody interaction.
14. List the reasons for temporary deferral in blood donation
15. What are the different stains in vaginal smear cytology
16. Cryoprecipitate.
17. What is Rh factor and mention its significance
18. If the father is AB and mother O, what are the possible genotypes of the children
19. Cytology smear preparation of large quantity of fluid.
20. Storage of plasma.
21. Collection of sputum for cytology.
22. List the information that is required to be on the blood unit label