

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations
October 2019****Cytology & Transfusion Technology****(2016 Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay**(2x10=20)**

1. What is fixation. What are the various fixatives used in cytology. Write advantages and disadvantages of coating fixation.
2. Describe in detail on the various antiserums and red cell reagents used in ABO test procedures and their preparations.

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

3. Stains used in hormonal evaluations.
4. Blood group antigens
5. Preparation of cell block.
6. Antibodies of ABO blood group system.
7. Preparation and fixation of smears
8. Serum typing.
9. Cytology of normal urine.
10. Fresh frozen plasma.
11. Collection of sputum.
12. Lukodepleted blood products

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

13. Cyto centrifugation.
14. Rh variant D^v
15. Technique of FNAC.
16. Quality control of grouping reagent.
17. Laboratory safety.
18. Screening test for HCV
19. MGG stain.
20. Exchange transfusion.
21. Mitotic cell division.
22. Anaphylactic transfusion reactions