

**Third Year B.Sc MLT Degree Examinations, November 2013**

**CYTOLOGY & TRANSFUSION TECHNOLOGY**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. List the common stains used in cytology. Mention the composition and steps of each staining method. Discuss the advantages and disadvantages of each method.(2+5+3=10)
2. List transfusion reactions. Discuss the different types of hemolytic reactions (3+7=10)

**Short notes**

**(10x5=50)**

3. Normal cells seen in a cervical smear
4. Liquid based cytology
5. Hormone cytology
6. Preparation of cell block
7. Advantages of FNAC
8. Coombs test
9. Red blood cell antigens
10. Anticoagulant solutions used for blood transfusion
11. The MNs blood group system
12. Antibody titration

**Answer briefly**

**(10x3=30)**

13. Exudate and transudate
14. Destaining of stained slides
15. List different cytology specimens from respiratory tract
16. List infections that can be acquired in cytology laboratory
17. Saccomanno's fixative
18. Autologous blood donor
19. Methods of screening blood for malaria
20. List major diseases transmitted through transfusion
21. Leukapheresis
22. Temperature for storage of different components of blood