

Third Year B.Sc MLT Degree Supplementary Examinations October 2023

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 the different methods of ABO blood grouping in detail. What are the possible errors which can occur
2. Discuss the applications, procedure, advantages and disadvantages of Fine Needle Aspiration Cytology (FNAC). Explain the procedure of Pap staining

**Short notes**

(10x5=50)

3. CSF cytology
4. Various fixatives used in cytology
5. Quality control measures in blood banking
6. Screening tests in blood donors
7. Collection and storage of blood in blood bank
8. Automation in cytology lab
9. Organization and management of blood bank
10. Methods of processing of fluid samples in cytology
11. Apheresis
12. Methods of collection and processing of samples from respiratory tract

**Answer briefly**

(10x3=30)

13. Rapid stains used in cytology
14. Storage of plasma
15. Cell block preparation
16. Indirect Coombs test
17. Urine cytology
18. Uses of LISS in blood bank
19. Surepath method of liquid based cytology
20. Cell types in normal cervical smear
21. Autologous blood transfusion
22. Cryoprecipitate