

Third Year B.Sc MLT Degree Examinations, September 2016

CYTOLOGY & TRANSFUSION TECHNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the preparation of FNAC smears. Enumerate four common sites from where FNAC can be done routinely. Elaborate on the preparation and procedure for giemsa staining (4+2+4=10)
2. Enumerate and discuss the types of blood bags in present day use. Mention the anticoagulants used in blood bank with their advantages. (5+5)

Short Notes

(10x5=50)

3. Preparation of PAP stain
4. Quality control in cytology
5. Storage of blood components.
6. Cytospin.
7. Quality assurance in blood banking.
8. Exfoliative cytology.
9. Biosafety precautions in the blood bank
10. Leucocyte antigens
11. Preservation of body fluids for cytology.
12. Delayed hemolytic transfusion reactions.

Answer briefly

(10x3=30)

13. Du testing.
14. List the reasons for permanent deferral in blood donation
15. What are cytological fixatives. Compare any two.
16. What is a titer. How would you determine the anti-D titer in a pregnant mother.
17. Bombay phenotype.
18. Irradiation of blood components.
19. Characteristics of carcinoma cells in cervical smears.
20. Strategies for blood donor motivation.
21. Cytohormonal evaluation.
22. Indications for red cell transfusion.