

Third Year B.Sc MLT Degree Supplementary Examinations, April 2015

CYTOLOGY & TRANSFUSION TECHNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Mention the body fluids received in the cytology laboratory. How will you preserve the body fluids and how the cytology smears are prepared from these fluids (2+4+4=10)
2. What are the anticoagulants used in blood transfusion. Discuss the composition and advantages of each. (3+7=10)

Short notes

(10x5=50)

3. Advantages and disadvantages of cytocentrifuge
4. Coating fixatives
5. Ayers spatula and its uses
6. Special stains used in cytology
7. Shorr stain
8. Leukocyte antigens
9. D Antigen
10. ABO antigens and encoding genes
11. Hemolytic disease of the newborn
12. Mitosis

Answer briefly

(10x3=30)

13. Uses of cervical smear examination
14. Progressive and regressive staining
15. Cells seen in urine of healthy person
16. Inflammatory lesions of female genital tract
17. Membrane filters in cytology
18. Fresh frozen plasma
19. Factors affecting antigen-antibody reactions
20. Components of blood
21. Plasmapheresis
22. Secretors and non-secretors