

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write an essay on any TWO of the following:

2 X 10 = 20

1. Discuss imaging Cytometry, principles, equipment and techniques of image analysis.
2. Monoclonal antibodies and their preparation.
3. Characterization of Chromosomes by various Banding Techniques.

Write a short note on any SIX of the following:

6 X 5 = 30

4. Applications of computers in Pathology.
5. Assay of Clotting Factors.
6. Autoclaving in an Atmosphere of Steam.
7. Separation of Blood Components.
8. Preservation of Blood, principles and applications in the Blood Banking.
9. Determination of Biomarkers in Cells.
10. Storage of Immortalized Cells in Glycerol in Liquid Nitrogen.
11. HLA Antigens in Blood Transfusion.

Write briefly on the following:

10 X 3 = 30

12. Carbondioxide incubator.
13. Staining of Elastic Tissue.
14. Chromosomal Observation in Cancer.
15. Freezing Microtome.
16. Blood Smear preparation.
17. Fresh Frozen Plasma and its uses.
18. LE Cell Preparation.
19. Buccal Smear preparation for Barr body.
20. Principle of Flow Cytometry.
21. Mounting Media.
