

QP CODE: 403012

Reg. No:.....

**Final Year B.Sc MLT Degree Supplementary Examinations
September 2025
Histotechnology and Cytogenetics**

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 table/diagrams/flow charts wherever necessary*

Essay

(2x10=20)

1. Discuss in detail about decalcification techniques. What are the various decalcifying agents and their advantages and disadvantages (5+5)
2. Describe the various steps used in routine processing of tissues in histopathology. Add a note on automatic tissue processor (7+3)

Short notes

(10x5=50)

3. Advanced methods in cytogenetics
4. Preparation of hematoxylin stains
5. Stains for amyloid
6. Clearing agents
7. Microwave in tissue processing
8. Sex chromatin bodies
9. Knife angles
10. Demonstration of fungi in tissue sections
11. Artefacts in tissue sections
12. Frozen section and its applications

Answer briefly

(10x3=30)

13. Bouins fixative
14. Removal of formalin pigment
15. Trimming of sections
16. Van Gieson technique
17. Mordants
18. L mould
19. Post chromatisation
20. Progressive staining
21. Adhesives for tissue sections
22. Vacuum embedding
