

QP CODE: 403012

Reg. No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
April 2024**

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. What are fixatives. Mention features of an ideal fixative. Classify fixatives. Discuss the advantages and disadvantages of formalin fixation (1+2+2+5)
2. What is decalcification. Enumerate the different methods of decalcification and describe briefly each method. How do you determine end point of decalcification. (1+6+3)

Short notes

(10x5=50)

3. Quality control in Histopathology lab.
4. Immunohistochemistry and its applications.
5. Embedding medias in histopathology.
6. Methods of chromosome analysis.
7. Corrections of faults in Paraffin sections.
8. Special stains for Lipid demonstration.
9. Use of microwaves in tissue processing.
10. Turners syndrome.
11. Mounting of specimens in museum.
12. Metachromatic stains.

Answer briefly

(10x3=30)

13. Picric acid containing fixatives.
14. Use of waterbath in histopathology.
15. Regressive staining.
16. Perls stain.
17. What is differentiation in staining.
18. Secondary fixation.
19. Trimming of paraffin block.
20. Reception of specimens in histopathology.
21. Clearance angle in microtomy.
22. Adhesives in histopathology.
