

**QP CODE: 403012**

**Reg. No:.....**

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations  
March 2023**

**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. Classify fixatives. Describe the preparation, mode of action, advantages and disadvantages of the routine formalin fixative. (3+2+1+2+2)
2. What is meant by decalcification. What are the methods of decalcification. Describe the method to detect the end point of decalcification. (1+7+2)

**Short notes**

**(10x5=50)**

3. Immunohistochemistry
4. Karyotyping
5. Uses of absolute alcohol
6. Clearing agents
7. Van Gieson
8. Types of Haematoxylin
9. Methods of removing formalin pigment
10. Immunofluorescent technique in tissue sections
11. Cryostat
12. Mounting of museum specimens

**Answer briefly**

**(10x3=30)**

13. Automation in histopathology
14. Rotary microtome
15. Barr body
16. Vacuum embedding
17. Down's syndrome
18. Mounting media
19. Types of moulds for embedding
20. Demonstration of fungi in tissue sections
21. Angles of microtome knives
22. Different types of hones

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