

QP CODE: 403012

Reg. No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
May 2022**

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. Define microtomy. What are the different models of microtome and its principles.
What are the faults and remedies in section cutting. (1+5+4)
2. Enumerate different embedding media. Describe about the different embedding techniques. (5+5)

Short notes

(10x5=50)

3. Perl's stain
4. Decalcifying agents
5. Classification of fixatives
6. Harris haematoxylin
7. Defects of processing and rectification
8. Frozen section
9. Enzyme histochemistry
10. Processing in Electron Microscopy
11. Histokinetete
12. Mounting of museum specimens

Answer briefly

(10x3=30)

13. Removal of formalin pigment from sections
14. Banding techniques
15. Different types of microtome knives
16. Klinefelter's syndrome
17. Stropping
18. Post chromatization
19. Y chromosome
20. Special stains for microorganisms in tissue sections
21. End point determination of decalcification
22. Advantages and disadvantages of various clearing agents
