

QP CODE: 403012

Reg No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
March 2021**

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. Explain the principles and methodology in processing of tissues for histopathology. Describe the various parts and care of an automatic tissue processor. (5+5)
2. Mention the various methods of chromosome analysis. Describe the cytogenetic abnormalities in acute leukemias. (5+5)

Short notes

(10x5=50)

3. Methods of decalcification
4. Immunofluorescence tests in histopathology
5. Rapid tissue processing
6. Identification of pigments in tissues
7. Connective tissue stains
8. Transmission Electron Microscope
9. Types of microtomes and their uses
10. Fixatives in histopathology
11. Demonstration of bacteria in tissues
12. Principle of PAS staining and its uses

Answer briefly

(10x3=30)

13. Resin embedding
14. Mucin stains
15. Down's syndrome
16. Tissue mountants
17. Feulgen stain
18. Demonstration of lipid in tissues
19. Knife sharpening
20. Mordents
21. Barr body
22. Disposable microtome blades
