

QP CODE: 403012

Reg No:.....

**Final Year B.Sc MLT Degree Supplementary Examinations
February 2020**

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. Describe the different steps of processing. What are the merits and demerits of different clearing agents. Write briefly on rapid processing . (5+3+2)
2. What are the different types of Haematoxylin. Describe the preparation of Harris Haematoxylin. Explain the principles of Haematoxylin staining. (2+4+4)

Short notes

(10x5=50)

3. Storage of paraffin blocks and sections
4. Formalin fixative
5. Immunocytochemistry
6. Methods of embedding
7. Dehydrating agents
8. Automated tissue processor
9. Honing of microtome knives
10. Electron microscopy techniques
11. Mordants
12. PAS

Answer briefly

(10x3=30)

13. Banding technique
14. Turner's syndrome
15. AFB staining
16. Demonstration of melanin in tissues
17. Chromosome analysis
18. Insitu hybridisation
19. Buffered neutral formalin
20. Types of moulds
21. Sledge microtome
22. Microwave processing of tissues
