

QP CODE: 403012

Reg No:.....

Final Year B.Sc MLT Degree Examinations, September 2016

HISTOTECHNOLOGY AND CYTOGENETICS

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. What is frozen section study. Enumerate the methodology and equipment used for preparing frozen sections. Discuss the various uses, advantages and disadvantages of frozen sections (2+3+5=10)
2. Enumerate the different types of automated machines used in the histopathology laboratory. Discuss their various advantages and disadvantages. Briefly describe the principles involved in the working of these equipments. (3+4+3=10)

Short notes

(10x5=50)

3. Methods of decalcification
4. Fluorescent in situ hybridization
5. Banding techniques
6. Tissue processing for electron microscopy
7. Connective tissue stains
8. Demonstration of fungi in tissues
9. Uses of reticulin staining
10. Scanning electron microscopy
11. Types haematoxylin stains and its uses
12. Chromosomal changes seen in cancers

Answer briefly

(10x3=30)

13. Demonstration of H. Pylori in gastric biopsy
14. Demonstration of amyloid
15. Argentaffin stains
16. Resin embedding
17. Types of disposable microtome blades
18. Klinefelter's syndrome
19. Identification of pigments in tissue
20. Methods of knife sharpening
21. Utility of serial sections in histopathology
22. Types of tissue processing capsules
