

QP CODE: 403012

Reg No:.....

**Final Year B.Sc MLT Degree Supplementary Examinations
February 2017**

HISTOTECHNOLOGY AND CYTOGENETICS

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. What are the various techniques of chromosomal analysis. Discuss in detail any one method. Mention the advantages of each. (2+5+3)
2. What is processing in histopathology. Discuss the different steps in processing. What are the advantages of automated tissue processor. (2+5+3)

Short notes

(10x5=50)

3. Neutral buffered formalin
4. Perl's staining – method and uses
5. Mountants in histopathology
6. Immunofluorescent technique – principle and uses
7. Sharpening of microtome knife
8. Mordant
9. Fixatives used in museum.
10. Paraffin wax used in histopathology
11. Cryostat and their uses
12. Structural changes in chromosomes.

Answer briefly

(10x3=30)

13. Stains used to demonstrate barr body
14. Types of electron microscope. Mention the difference between them.
15. What is metachromasia. Mention one metachromatic stain.
16. Surface decalcification.
17. What is the principle of reticulin stain.
18. Types of mould used for making paraffin blocks
19. Trimming in histopathology
20. Adhesives for fixation of paraffin sections to slide.
21. Turner's syndrome
22. Drumstick in neutrophils
