

QP CODE: 403012

Reg No:.....

Final Year B.Sc MLT Degree Examinations, October 2015

HISTOTECHNOLOGY AND CYTOGENETICS

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the various types of embedding media. Mention its uses, advantages and disadvantages . Add a note on double embedding. (3+5+2=10)
2. Enumerate the different types of chromosomal abnormalities. Discuss the chromosomal abnormalities seen in acute leukemias. Briefly describe the principles involved in FISH. (3+4+3=10)

Short notes

(10x5=50)

3. Processing of bone marrow biopsies
4. Cryostat
5. Immunofluorescent techniques in tissue section.
6. Controls in staining procedures
7. Bone marrow culture
8. Demonstration of bacteria in tissues
9. Connective tissue stains
10. Transmission electron microscopy
11. Enzyme histochemistry - applications
12. Museum techniques

Answer briefly

(10x3=30)

13. Histokinette
14. Parasites in tissues
15. Silver stains
16. Demonstration of metals in tissues
17. Automatic knife sharpeners
18. Down's syndrome
19. Demonstration of Y chromosomes
20. Artifacts in tissue sections
21. Utility of serial sections in histopathology
22. Types of molds in paraffin blocking
