

QP CODE: 403012

Reg No:.....

Final Year B.Sc MLT Degree Supplementary Examinations, April 2016

HISTOTECHNOLOGY AND CYTOGENETICS

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the role of the histopathology laboratory in a teaching hospital.
Describe the various steps and methods used in routine processing of tissues.
What are the special methods used in histopathology to arrive at a final diagnosis
(3+4+3=10)
2. Discuss the principles and theory of staining. Mention briefly the classification of dyes. Discuss the uses of mordant, accentuators and accelerators in staining
(3+3+4=10)

Short notes

(10x5=50)

3. Bone marrow culture
4. Frozen sections
5. Artifacts in tissue sections
6. Cytogenetic abnormalities in acute myeloid leukemia
7. Types of microtomes and their uses
8. Fungal stains
9. Types of structural abnormalities in chromosomes
10. Fixatives in histopathology
11. Processing of bone biopsies
12. Immunofluorescent techniques in histopathology

Answer briefly

(10x3=30)

13. Vacuum embedding
14. Demonstration of metals in tissues
15. Argyrophil stains
16. Demonstration of lipid in tissues
17. Demonstration of X chromosome
18. Endogenous pigments
19. Automatic slide stainer
20. Philadelphia chromosome
21. Adhesives in histopathology
22. AFB stains
