Final Year B.Sc MLT Degree Examinations, September 2014

HISTOTECHNOLOGY AND CYTOGENETICS

Time: 3 Hours

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

- 1. Explain the principle and methodology in processing of tissues for histopathology. Describe the various parts and care of an automatic tissue processor (2+3+5=10)
- 2. Mention the various methods of chromosome analysis. Describe the cytogenetic abnormalities in myeloid leukemia. Discuss briefly the use of FISH in chromosome analysis (3+3+4=10)

Short notes

- 3. Methods of decalcification
- 4. Frozen sections
- 5. Rapid tissue processing
- 6. Banding techniques
- 7. Types of microtomes and its uses
- 8. Fungal stains
- 9. Tissue processing for electron microscopy
- 10. Fixatives in histopathology
- 11. Role of histopathology laboratory in disease diagnosis
- 12.Types of haematoxylin stains and its uses

Answer briefly

- 13. Vacuum embedding
- 14. Mucin stains
- 15. Silver stains
- 16. Demonstration of lipid in tissues
- 17. Knife sharpening
- 18. Mordant
- 19. Barr body
- 20. Resin embedding
- 21. Types of disposable microtome blades
- 22. Identification of pigments in tissue



(10x5=50)

(2x10=20)

(10x3=30)

Reg No:....

Total Marks: 100