
Final Year B.Sc MLT Degree Supplementary Examinations October 2022

Histotechnology and Cytogenetics

Time: 3 Hours

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
 - Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay

- Discuss the principles and theory of staining. Mention briefly the classification of dyes. Describe the uses of Mordant, accentuators and accelerators in routine staining. (3+4+3)
- 2. Discuss different types of microtomes. Write the advantages and disadvantages of each. Describe the parts and operation of any one in detail. (2+3+5)

Short notes

- 3. Embedding medias
- 4. Fluorescent in Situ Hybridization (FISH)
- 5. Tissue processing for electron microscopy
- 6. Quality control in the histopathology laboratory
- 7. Scanning electron microscopy
- 8. Automation in histopathology
- 9. Decalcifying agents
- 10. Fixatives in histopathology
- 11. Knife sharpening technique
- 12. Vacuum embedding

Answer briefly

- 13. Mounting fluids used in museum
- 14. Demonstration of iron in tissues
- 15. Grouping of human chromosomes
- 16. Demonstration of Barr body
- 17. Demonstration of amyloid
- 18. Demonstration of fungi in tissues
- 19. Types of moulds in paraffin blocking
- 20. Adhesives in histopathology
- 21. Removal of formation pigment from sections
- 22. Knife angles

(10x3=30)

Reg. No:.....

Total Marks: 100

(2x10=20)

(10x5=50)