QP CODE: 403012

Final Year B.Sc MLT Degree Regular/Supplementary Examinations September 2019

Histotechnology and Cytogenetics

Time: 3 Hours

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

- 1. Enumerate the different types of embedding media. Mention the specific uses of these media. What is meant by vacuum embedding. Indicate its advantages and disadvantages. (3+4+2+1)
- 2. Discuss the principles and applications of immune fluorescent techniques in histopathology. Describe the equipments and reagents required for immune fluorescent studies. (5+5)

Short notes

- 3. Application of enzyme histochemistry
- 4. Criteria for chromosome identification
- 5. Microarray in histopathology
- 6. Mounting of museum specimens
- 7. Methods of decalcification of tissues
- 8. Methods of chromosome analysis
- 9. Sampling methods in cytogenetic analysis
- 10. Fixatives in histopathology
- 11 Automated tissue processor- principles and advantages
- 12. Tissue processing for electron microscopy

Answer briefly

- 13. Demonstration of human sex chromosomes
- 14. Sledge microtome
- 15. Microtomy for electron microscopy
- 16. Artifacts caused in microtomy
- 17. Dehydrating agents
- 18. Down's syndrome
- 19. Demonstration of iron in tissues
- 20. Enumerate any four parasites seen in tissue sections
- 21.Removal of formalin pigment.
- 22. Connective tissue stains

(10x3=30)

Total Marks: 100

Reg No:....

(2x10=20)

(10x5=50)