

**QP CODE: 403012**

**Reg No:.....**

**Final Year B.Sc MLT Degree Supplementary Examinations March 2018**

**HISTOTECHNOLOGY AND CYTOGENETICS**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Classify haematoxylin. Describe the method of preparation of Harris haematoxylin. Discuss the major differences between Harris & Ehrlich's haematoxylin (2+5+3)
2. Describe various methods of decalcification. Discuss the methods of determining end point of decalcification. Add a note on surface decalcification. (2+5+3)

**Short notes**

**(10x5=50)**

3. Carnoys fixative
4. Different types of microtome and advantages of each.
5. Principle and uses of immunocytochemistry
6. Karyotyping
7. Down syndrome
8. Hand processing of tissue sections.
9. Barr body
10. Formalin pigment
11. Double embedding
12. Kaiserling's technique for mounting of specimens in museum

**Answer briefly**

**(10x3=30)**

13. Frozen section.
14. Tissue floatation bath in histopathology
15. PAS staining – principle and uses
16. What are serial sections in histopathology.
17. Natural stain used in histology
18. Bouins fluid.
19. Honing
20. Mutation
21. Philadelphia chromosome
22. Classify mountants with examples.

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