QP CODE: 403012 Reg. No:.....

Final Year B.Sc MLT Degree Supplementary Examinations September 2024 Histotechnology and Cytogenetics

Time: 3 Hours Total Marks: 100

 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 (2x10=20)

- 1. Discuss in detail the different types of microtomes with their advantages and disadvantages. Add a note on artefacts in tissue sections (7+3)
- What is karyotyping. Mention its application in pathology. Discuss banding techniques (2+3+5)

Short notes (10x5=50)

- 3. Picric acid fixatives
- 4. Rapid manual processing of tissues
- 5. Stains for demonstration of mucin
- 6. Mounting media
- 7. Safety measures in histopathology lab
- 8. Cryostat and its application in histopathology
- 9. Types of structural abnormalities in chromosomes
- 10. Ripening of hematoxylin
- 11. Endogenous pigments
- 12. Application of serial sections in histopathology

Answer briefly (10x3=30)

- 13. Automatic knife sharpening
- 14. Double embedding
- 15. Reticulin stain
- 16. Regressive staining
- 17. Zenkers fluid
- 18. Tissue Tek
- 19. Schiffs reagent
- 20. Rake angle
- 21. Mounting fluids for museum specimen
- 22. Deparaffinisation
