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Reg. No......

Name.....

**B.Sc. MEDICAL LABORATORY TECHNOLOGY (M.L.T.) DEGREE
EXAMINATION, APRIL 2025**

Fourth Year

HISTOTECHNOLOGY AND CYTOGENETICS

(2008 Admission onwards - Last and Final Special Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Answer Sections A and B in separate Answer Books.

*Answer **all** questions.*

Draw diagrams wherever necessary.

Section A

I. Answer in one word or sentence :

- (a) Uses of formalin
- (b) Decalcification
- (c) An acidic dye.
- (d) Hematoxylin.
- (e) Disadvantages of mercuric chloride.

(5 × 1 = 5)

II. Write Briefly on :

- (a) Technique of mounting and mounting media.
- (b) Serial sectioning.
- (c) Automatic tissue processors.
- (d) Gram staining and AFB staining.
- (e) Carnoy's fixative and Bouin's fluid.

(5 × 3 = 15)

Turn over





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III. Write short notes on :

- (a) Dehydrating agents.
- (b) Methods of examination of fresh tissue specimens.
- (c) Technique of paraffin wax impregnation.
- (d) Types of microtomes.

(4 × 5 = 20)

IV. Write about fixation and secondary fixation. Explain the classification and qualities of fixatives.

(10)

Section B

I. Answer in one word or sentence :

- (a) Drum stick count.
- (b) Turner's syndrome.
- (c) Testicular feminization syndrome.
- (d) A chromosomal change in Neoplasia.
- (e) Application of immunohistochemistry.

(5 × 1 = 5)

II. Write Briefly on :

- (a) Processing of skin tissue.
- (b) Philadelphia chromosome.
- (c) Y chromosome demonstration.
- (d) Storage and demonstration of foetal skeleton.
- (e) Clinical utility of bone marrow culture.

(5 × 3 = 15)





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III. Write short notes on :

- (a) Fixation and Special processing techniques for CNS.
- (b) Organization of a museum.
- (c) Cryostat and its uses.
- (d) Staining of the Barr body.

(4 × 5 = 20)

IV. Explain methods for chromosome analysis and banding techniques.

(10)

