

B. Voc. (Medical Lab Technology)  
Fourth Semester  
BMLT-403: Introduction to Histopathology  
(Common with ADMLT)

Time allowed: 3 Hours

Max. Marks: 40

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt the following:-

- a) Enlist major components of laboratory organization.
- b) What is importance of keeping records of the specimens?
- c) What are tissue fixatives?
- d) What is the use of embedding media?
- e) Enlist components of mounting media.
- f) What are solvent mordents?
- g) Give importance of histology.
- h) What is use of decalcification?

(8x1)

UNIT - I

II. a) Discuss process of sample collection.

b) What is histopathology and its importance?

(2x4)

III. How histology specimens are received? Discuss labelling of the specimens. (8)

UNIT - II

IV. How histological tissues are processed for paraffin-embedding? (8)

V. Explain in details the process of Fixation and Embedding of tissues. (8)

UNIT - III

VI. a) Explain various types of Microtomes.

b) How tissue samples can be stained? Explain two methods.

(2x4)

VII. a) Give principle and maintenance of Microtome.

b) How mounting of the tissues can be done?

(2x4)

UNIT -IV

VIII. a) What are metachromatic dyes and their uses?

b) What are haematoxylin stain and its importance in histology?

(2x4)

IX. a) Discuss staining of carbohydrates and amyloid.

b) How minerals and pigments can be identified?

(2x4)

x-x-x