

2055
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. I which is compulsory and selecting one question from each Section.

x-x-x

1. Answer the following in brief: (8x1=8)

1. Define histopathology.
2. What is the importance of sample handling in histopathology?
3. What is a microtome used for?
4. Where is embedding media used in histopathology?
5. Define mounting in histopathology.
6. What is the role of staining in histopathology?
7. What is paraffin embedding?
8. Name two staining techniques used for carbohydrate detection.

Section I

2. (a) Describe the scope of histopathology. (4)
- (b) Explain the organization of a histopathology laboratory. (4)
3. (a) What precautions should be taken during the collection of histopathology specimen? (4)
- (b) Briefly describe the recording and labeling of histological specimens. (4)

Section II

4. (a) List major fixation methods and explain one in detail. (4)
- (b) Describe the embedding process in tissue fixation. (4)
5. (a) Explain in brief the processing of histological tissues for paraffin embedding. (4)
- (b) Discuss the types of fixatives used in histopathology and their significance. (4)

(2)

Section III

6. (a) Define microtome & describe its principle and applications in a histopathology lab. (4)
(b) How is a microtome knife sharpened? (4)
7. (a) Discuss the general characteristics of practical section cutting. (4)
(b) Explain the precautions taken during the preparation of mounting media. (4)

Section IV

8. (a) Define dyes and their practical applications in histopathology. (4)
(b) Write a short note on solvent mordants and their role in staining. (4)
9. (a) Explain the staining process for collagen fibers. (4)
(b) Discuss one method of identification of pigments in histopathology. (4)

x-x-x