

M.Sc Sem-3 Examination**502****MLT****Time : 2-30 Hours]****November-2024****[Max. Marks : 70**

Q1A	Describe the role of dehydrating agents in tissue processing and compare various dehydrating agents.	7 Marks
Q1B	Write a detailed note on the Fixation and fixative agents used in tissue processing.	7 Marks
OR		
Q1A	Describe the process of tissue embedding and discuss the various factors should be taken care of.	7 Marks
Q1B	Describe the complete tissue processing steps in histopathology.	7 Marks
Q2A	Write the detailed note on Immunohistochemistry.	7 Marks
Q2B	Discuss the applications and significance of PASstain, Masson's Trichrome, and GMSstain.	7 Marks
OR		
Q2A	Write a detailed note on the special staining.	7 Marks
Q2B	Write a detailed note on Haematoxylin and Eosin staining.	7 Marks
Q3A	Explain the key histological features that differentiate normal tissues from abnormal tissues in histopathology. Provide examples of cellular changes that indicate pathological conditions.	7 Marks
Q3B	Describe the cellular changes and patterns that indicate disease in histopathology. Discuss how abnormal cell growth, size, shape, and organization are used to diagnose different conditions.	7 Marks
OR		
Q3A	Discuss the process of interpreting histopathological slides. How do pathologists identify normal versus abnormal histology, and what are the important cellular components to focus on during analysis?	7 Marks
Q3B	Explain the differences between benign and malignant tumors based on histopathological slides. What are the key cellular features that pathologists use to make this distinction?	7 Marks
Q4A	Discuss the process of clinical-pathological correlation. How do histopathology results complement clinical data in understanding disease progression and providing a comprehensive diagnosis?	7 Marks
Q4B	Discuss how histopathology plays a role in treatment decisions for cancer patients. Explain how the grading, staging, and histological features of tumors influence therapeutic strategies.	7 Marks
OR		
Q4A	Describe the importance of effective communication between pathologists and clinicians. How does accurate and timely reporting of histopathological findings impact patient care and treatment outcomes?	7 Marks

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Q4B	Explain how clinical-pathological correlation helps in understanding the progression of a disease, from initial presentation to advanced stages.	7 Marks
Q5	Answer the following questions (Any Seven)	14 Marks
I	Name any two cleaning agents used in tissue processing.	2 Marks
II	How section thickness affects histopathological analysis?	2 Marks
III	Name the two types of microtomes.	2 Marks
IV	Haematoxylin is derived from _____.	2 Marks
V	Name the stain commonly used for kidney biopsy.	2 Marks
VI	Write the full form of PAS stain.	2 Marks
VII	What is the primary difference between normal and abnormal histology in tissue samples?	2 Marks
VII	What cellular change typically indicates a malignant tumor?	2 Marks
IX	Define staging in the context of tumor evaluation.	2 Marks
X	What is the significance of reporting histopathological findings in a timely manner?	2 Marks
XI	What is the role of clinical-pathological correlation in disease progression?	2 Marks
XII	What is the purpose of correlating histopathology with clinical findings?	2 Marks

BEST OF LUCK