

<b>Q1A</b>	Give a detailed account of fixation in tissue processing. Discuss various types of fixatives and their roles in preserving tissue morphology.	7 Marks
<b>Q1B</b>	Outline the complete steps involved in tissue processing in histopathology and explain the purpose of each step.	7 Marks
<b>OR</b>		
<b>Q1A</b>	Explain the function of dehydrating agents in tissue processing and compare the properties and uses of different dehydrating media.	7 Marks
<b>Q1B</b>	Describe the embedding procedure used in tissue processing. Discuss the essential factors that must be considered to achieve optimal embedding results.	7 Marks
<b>OR</b>		
<b>Q2A</b>	Write a comprehensive note on special staining techniques used in histopathology and their diagnostic value.	7 Marks
<b>Q2B</b>	Explain the importance and diagnostic applications of special stains such as PAS, Masson's Trichrome, and Gomori's Methenamine Silver (GMS).	7 Marks
<b>OR</b>		
<b>Q2A</b>	Write an explanatory note on the principle, procedure, and diagnostic applications of Immunohistochemistry (IHC).	7 Marks
<b>Q2B</b>	Describe in detail the principle, procedure, and interpretation of Haematoxylin and Eosin (H&E) staining.	7 Marks
<b>OR</b>		
<b>Q3A</b>	Describe various cytological and tissue-level changes that indicate disease. Explain how variations in cell morphology, arrangement, and growth pattern aid in diagnosis.	7 Marks
<b>Q3B</b>	Explain how histopathological slide interpretation is carried out. What key cellular components and tissue features are examined to differentiate normal from abnormal histology?	7 Marks
<b>OR</b>		
<b>Q3A</b>	Discuss the major histological differences between normal and diseased tissues. Provide examples of cellular and structural alterations associated with pathological conditions.	7 Marks
<b>Q3B</b>	Differentiate between benign and malignant neoplasms based on histopathological characteristics. Describe the cellular features used to identify malignancy.	7 Marks
<b>OR</b>		
<b>Q4A</b>	Describe the importance of clinico-pathological correlation in understanding disease evolution from early to advanced stages.	7 Marks
<b>Q4B</b>	Explain the process of clinico-pathological correlation. How do	7 Marks

	histopathological findings complement clinical data to establish an accurate diagnosis?	
<b>OR</b>		
<b>Q4A</b>	Discuss the contribution of histopathology in planning cancer treatment. How do tumor grade, stage, and microscopic features influence therapeutic choices?	7 Marks
<b>Q4B</b>	Discuss the significance of effective collaboration between clinicians and pathologists. Explain how accurate and prompt reporting of histopathological results impacts patient management.	7 Marks
<b>Q5 Answer the following questions (Any Seven) 14 Marks</b>		
<b>I</b>	How does the thickness of a section influence the quality of microscopic examination?	2 Marks
<b>II</b>	List any two types of microtomes used in histopathology.	2 Marks
<b>III</b>	Mention two commonly used cleaning agents in tissue processing.	2 Marks
<b>IV</b>	Expand the abbreviation "PAS" stain.	2 Marks
<b>V</b>	Haematoxylin is extracted from which natural source?	2 Marks
<b>VI</b>	Name one special stain routinely used for kidney biopsy specimens.	2 Marks
<b>VII</b>	Define "staging" in relation to tumor assessment.	2 Marks
<b>VII</b>	What is the key distinction between normal and abnormal tissue histology?	2 Marks
<b>IX</b>	Which cellular feature is most characteristic of malignant transformation?	2 Marks
<b>X</b>	What is the role of clinico-pathological correlation in diagnosing diseases?	2 Marks
<b>XI</b>	Why is timely reporting of histopathological results important for patient care?	2 Marks
<b>XII</b>	Why is it important to correlate clinical information with histopathological observations?	2 Marks

**BEST OF LUCK**