



BRAINWARE UNIVERSITY

Library Versity
Brainware University
Brainware University
398, Rammis mapu Road, 700125
Kolkata, West Bengal, 700125

Term End Examination 2024-2025
Programme – DMLT-2023
Course Name – Cytopathology & Histopathology
Course Code - DMLT301
(Semester III)

	Marks: 60	Time : 2:30 Hours	
[T		didates are required to give their answers in their	
	own words as far	as practicable.]	
	Grou		
1	(Multiple Choice		
1.	Choose the correct alternative from the following		
(i)	Choose the acid that is NOT applied for decalcit	fication.	
	a) Picric acid	b) Sulfosalicylic acid	
	c) Nitric Acid	d) Acetic Acid	
(ii)	Papanicolaou stain is a		
	 a) Confirmative method for detection of breast cancer 	b) Confirmative method for detection of cervical cancer	
	c) Screening method for detection of cervical	d) None of these	
	cancer		
(iii)	Identify the preferable size of the Section for Microtomy.		
	a) 1-2µ	b) 3-5μ .	
(iv)	c) 10-15µ Identify the Fixative reagent from the following	d) 7-8µ	
(IV)			
	a) Formal Sublimate	b) Bouins Fluid	
(11)	c) Potassium Dichromate Solution Potassium Alum in Haematoxylin & Eosin Stain	d) Toluene	
(v)		b) Mordant	
	a) Blueing Agent c) Decolourizer	d) Oxidizing Agent	
(vi)	Which staining procedure is specifically effective		
	glycoproteins in tissues?	L. Velicit are the ecusernal qualifier of an ideal fixal	
	a) Methylene blue stain	b) Hematoxylin and eosin stain	
	c) Massons trichrome stain	d) Periodic acid-Schiff stain	
(vii)	Overstaining with Haematoxylin is typically cormethods?	rected by which of the following	
	a) Differentiation	b) Blueing	
	c) Mounting	d) Debudration	

(viii) Which substance is typically used for tissue dehydration?

B	a) Ethanol c) Xylene	b) Toluene d) Formalin		
(ix)	What temperature range is typically used in cryo a) -20°C to -10°C	b) 0°C to -5°C		
19	c) -30°C to -20°C	d) -80°C to -70°C		
(x)	Which fluorescent dye is commonly used to laborataining in immune cytochemistry?	el nuclei in immunofluorescence	Versity Raras	
(xi)	a) Hematoxylin c) DAPI (4,6-diamidino-2-phenylindole) Which type of antibody is typically used as the simmunohistochemistry (IHC) for immune cytoch		Bendar 20015	
	a) Monoclonal antibody	b) Polyclonal antibody		
(xii)	c) Conjugated antibody In aspiration cytology, what type of needle is type samples?	d) Antigen-binding antibody pically used for obtaining tissue or fluid		
(viii	a) Hypodermic needle c) Chiba needle Which term is used to describe the accumulation	b) Catheter needle d) Fine-needle biopsy (FNB) needle n of fluid in the abdominal cavity?		
(XIII)	a) Pericardial effusion	b) Pleural effusion		
(xiv	c) Ascites) What is the effect of prolonged exposure to dec	d) Hemopericardium		
(xv)	a) It makes the tissue more durablec) It has no effectWhich of the following is NOT a dehydrating age	b) It enhances tissue quality d) It adversely affects the tissue ent mentioned in the text?		
	a) Formaldehyde c) Methyl Alcohol	b) Ethyl Alcohol d) Acetone		
	her similarity of Ground	n D		
	Grou (Short Answer Ty		3 x 5=15	
2. V	Vhat is immunohistochemistry?	in the residence of the state o	(3)	
3. 10	3. Identify the normal composition of CSF.			
4. Describe the role of fixatives in tissue processing.			(3)	
5. Discuss the different types of connective tissues.			(3)	
b. C	Conclude the result of Papanicolaou stain.	3	(3)	
	analyze the comparative drawbacks of cryostat se histological methods.		(3)	
	Grou	namidal seminar		
	(Long Answer Ty		5 x 6=30	
7.	What is a cytocentrifuge, and what is its primary		(5) (5)	
8.				
9. What are the essential qualities of an ideal fixative used in histopathology?				
	Assess the implications of using various antigen and accuracy of immunohistochemistry results.			
	Discuss the methods used to determine the end	point of decalcification.	(5)	
12.	Summarised the procedure of Pap stain.	1200	(5)	
	Summarize the formation and circulation of CSF.		(5)	