

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY THIRUVANANTHAPURAM—695 011, INDIA.

(An Institute of National Importance under Govt.of India)
Phone—(91)0471—2443152 Fax—(91)0471—2446433, 2550728
<u>Email-sct@sctimst.ac.in</u> Web site—www.sctimst.ac.in

1		
ROLL NUMBER:		

WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT (LAB) PATHOLOGY – A TO B

DATE: 26/11/2019

DURATION: 60 MINUTES

TIME: 9.30 AM

TOTAL MARKS: 50

INSTRUCTIONS TO THE CANDIDATE

- 1. Write your Roll Number on the top of the Question Booklet and in the Answer Sheet.
- 2. Each question carries 1 mark
- 3. There will not be any Negative Marking.
- 4. Write legibly the alphabet of the most appropriate answer in the separate answer sheet provided.
- 5. Over writing is not permitted.
- 6. Marking more than one answer will invalidate the answer.
- 7. Candidate should sign on the Answer Sheet.
- 8. Candidate should hand over Answer Sheet to the invigilator before leaving the examination hall.

Vant

WRITTEN TEST FOR I MFCP - TECHNICAL ASSISTANT (LAB) PATHOLOGY – A TO B 1. The tissue processing stages include all, except: A. Dehydration B. Infiltration C. Clearing D. Dissolution 2. Neutral buffered formalin is a: A. Dehydrant coagulant fixative C. Compound fixative B. Non-coagulant cross-linking fixative D. Physical fixative 3. All of the following influence tissue processing, except: A. Agitation B. Vacuum C. Viscosity D. Specific gravity 4. The most widely used clearing agent in tissue processing is: A. Benzene B. Toluene C. Xylene D. Histosolve 5. All of the following are true regarding paraffin wax, except: A. Inexpensive C. Provides quality sections B. Suitable for Electron Microscopy D. Suitable for Immunohistochemistry 6. The commonest microtome routinely used in Histopathology is: A. Rotary microtome C. Sliding microtome B. Ultra-microtome D. Base sledge microtome 7. The following are the common requirements for paraffin section cutting, except: A. Tissue flotation bath C. Dessicator B. Camel haired brush D. Slide drying oven 8. Thick and thin zones parallel to blade edge seen in sections is known as: A. Charter B. Carter C. Chatter D. Chalet 9. Sections will not form ribbons in all of the cases, except: A. Paraffin wax too hard C. Debris on knife edge B. Incorrect clearance angle D. Block edges not parallel 10. Frozen sections are cut in: A. Thermostat B. Cryostat C. Freezer D. Lyophiliser 11. Frozen sections are useful for all, except: A. Intraoperative diagnosis C. Lipid stain B. Enzyme histochemistry D. Calcium stain 12. The purpose of anti-roll plate in cryostat is to: A. Prevent upward curl of frozen sections C. Enable upward curl of frozen sections B. Compress sections D. Rotate sections 13. The most common agent used to freeze skeletal muscle biopsies is: A. Thiopentane cooled in liquid nitrogen C. Isopentane cooled in liquid nitrogen B. Isopentane cooled in carbon dioxide D. Thiopentane cooled in carbon dioxide 14. The role of mordant present in haematoxylin is to:

15. All of the following are alum haematoxylins, except: A. Mayer's B. Harris's

C. Ehrlich's

D. Heidenhain's

16. The method of Haematoxylin and Eosin staining used in our laboratory is:

A. Regressive B. Progressive

A. Decrease tissue affinity

B. Increase tissue affinity

``

C. Intermediate

C. Confer a net negative charge

D. Interact with eosin

D. Neutral

WRITTEN TEST FOR I MFCP - TECHNICAL ASSISTANT (LAB) PATHOLOGY - A TO B 17. The Haematoxylin presently used in our laboratory is:

17. The Haematoxylin p	resently used in our	laboratory is:		
A. Alum haematoxylir		C. Molybdenum haematoxylin		
B. Tungsten haematox	ylin	D. Iron haematox	ylin .	
The color of skeletal	muscle fibres in Ma	sson trichrome stain is:	•	
A. Blue	B. Red	C. Orange	D. Yellow	
19. The crucial step in st	taining of elastic fibre	es by van Gieson metho	d is:	
A. Differentiation E	B. Fixation	C. Dehydration	D. Clearing	
20. PAS stain is used for	detection of the following	owing, <i>except:</i>	•	
A. Glycogen	B. Mucin	C. Fungus	D. Myelin	
21. Kulchitsky Pal (K Pa	al) stain is used for de	etection of:	•	
A. Myelin		C. Basement mem	brane	
B. Collagen		D. Elastin		
22. The color of myelin i	in Kulchitsky Pal (K	Pal) stain is:		
A. Blue	B. Brown	C. Black	D. Grey	
23. Heat is used during 2		g to:	•	
A. Help the dye to stair				
B. Prevent the dye from		acteria		
C. To protect the capsu				
D. To kill the Mycobac	teria			
24. Lepra bacilli are best				
A. Warthin-Starry metl		C. Gimenez metho	od .	
B. Modified Fite method	od	D. Ziehl-Neelsen	method	
25. All of the following s	stains are used to dete	ect fungal organisms, ex	cept:	
A. PAS		C. Mucicarmine		
B. Grocott's methenam	ine silver	D. Warthin-Starry		
26. Nissl stain uses:				
	3. Crystal violet	C. Methylene blue	D. Toluidine blue	
27. Before Kulchitsky Pa	l (K Pal) stain, the ne	erve biopsy is fixed ove	rnight in:	
A. Alexander's solution	1	C. Robert's solution		
B. Fleming's solution		D. Colin's solution		
28. All of the following a	re components of Fle	eming's solution used in	Kulchitsky Pal (K Pal)	
stain, <i>except:</i>				
A. Osmium tetroxide		C. Chromium triox	ide	
B. Glacial acetic acid D. Formic acid				
29. The following has to be	oe done after staining	with Lugol's iodine fo	r 2 hours:	
A. Wash in tap water		C. Wash in deionis		
B. Do not wash in water		D. Wash in alcohol		
30. The routine enzyme h	istochemical stains p	erformed on muscle bio	psy include all, except:	
A. MGT B.	SDH	C. NADH-TR	D. Acid phosphatase	
31. The following stains a	re useful for identify	ing type 1 and type 2 fi	bres in muscle biopsies,	
except:			• ′	
A. ATPase		C. Slow myosin		
B. Fast myosin	Fast myosin D. Haematoxylin and Eosin			

Vans

WRITTEN TEST FOR I MFCP - TECHNICAL ASSISTANT (LAB) PATHOLOGY - A TO B

32. The blue colo	r seen in NADH-TR is du	e to formation of the follow	vino [.]		
A. Quinone	B. Formazan	C. Tetrazolium	D. Nitrite		
33. All of the foll	owing are muscle immuno	ostains, except:	21111110		
A. Dystrophin	B. Sarcoglycan	C. Dysferlin	D. GFAP		
34. The color of n	nitochondria in MGT stair	ı is:	_, _,		
A. Green	B. Red	C. Brown	D. Black		
35. The method o	f immunohistochemistry u	sed in our laboratory is:	_ · 		
A. Direct antibo	dy labelling	C. Tertiary antibody	/ labelling		
	tibody labelling	D. Quaternary antib	ody labelling		
miniunonistoc	hemistry is:	and chromogen combination	on used for		
A. HRP and DA		C. HRP and Vector	red		
B. Alkaline phos	sphatase and Fast red		D. Alkaline phosphatise and DAB		
37. All of the follo	wing methods are used for	r epitope retrieval (antigen	unmasking) argante		
A. I loteolytic er	izyme digestion	C. Pressure cooking	ammasking), except.		
	B. Microwave heating				
38. Protein block i					
A. Enhance the a	ction of chromogen	C. Reduce background s	staining		
B. Decrease the	action of chromogen	D. Block endogenous pe	eroxidise activity		
39. Positive contro A. R132H-mutan B. K27M-mutant	II IDH I	ng all of the following imm C. G34R-mutant H3 D. ATRX	unostains, except:		
40. All of the follow	wing antibodies stain the r	nuclei. excent:			
A. p53	B. MIB-1	C. PRI.	D. TTF1		
41. All of the follow	wing antibodies stain the c	sytoplasm, excent:	<i>D.</i> 1111		
A. vimentin	B. Cytokeratin	C. GFAP	D. ATRX		
42. The pituitary pa	nel performed in our labo	ratory includes the followi	ng immunostoine		
corespe.		y and a disc to to to to wi	ng mmunostains,		
A. GH	B. STAT6	C. ACTH	D. PRL		
43. Presently, in our	r laboratory, all of the foll	owing tests are performed	by ELISA technique		
<i>except:</i> A. NMDA					
	B. ANCA	C. APLA	D. MUSK		
A. Gel Doc	the color change in ELIS.	A is measured using a:			
A. Gel Duc		C. Spectroscope			
B. Spectrophotom		D. Fluorescent micros	scope		
A. Nitric acid	ring acids are used for dec	alcification, except:			
	B. Hydrochloric acid	C. Formic acid D.	. Citric acid		
A. van Gieson stai	only used to demonstrate i	nternal elastic lamina in bl	ood vessels is:		
The tank Grobbin Star	ii D. Masson trichrome	C Reticulin ctain	D DAC		
A. Dystrophins	Ing muscle immunostains	stain the membrane (sarco	lemma), except:		
. i. Dyshopinis	B. Sarcoglycans	C. Merosin	D. Emerin		

lank.

WRITTEN TEST FOR I MFCP - TECHNICAL ASSISTANT (LAB) PATHOLOGY - A TO B

- 48. In our laboratory, the recommended fixative for nerve biopsy is:
 - A. Neutral buffered formalin

C. Normal saline

B. 2.5% glutaraldehyde

D. 20% formalin

- 49. In our laboratory, the epilepsy panel includes all of the following immunostains, except:
 - A. NeuN

C. GFAP

B. Neurofilament (NF)

D. p53

- 50. In our laboratory, all of the following immunological tests are performed for myasthenia gravis, *except*:
 - A. Acetylcholine receptor
 - B. MuSK
 - C. Titin
 - D. LRP4

Vant.

MFCP -Technical Assistant (Lab) Pathology-A to B

Answer Key

		Answer K	<u>ey</u>		,
11	D .	20	D	39	D
2	В	21	А	40	С
3	D	22	С	41	D
4	С	23	А	42	В
5	В	24	В	43	А
6	Α	25	D	44	В
7	С	26	А	45	D
8	С	27	В	46	А
. 9	D	28	D	47	D
10	В	29	В	48	В
11	D	30	D	49	D
12	А	31	D	50	D
13	С	32	В		
14	В	33	D		
15	D	34	В		
16	A	35	В		
17	A	36	Α		(au)
18	В	37	D		ų –

38

19