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Answer Sheet No Sig. of Invigilator		BOUNT	Co
TECHNIQUES	HSSC-I		111

ELEMENTARY ANATOMY AND MICROTECHNIQUES

SECTION - A (Marks 10)

Time a	llov	ved: 10	Minutes			
NOTE:-	Section—A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.					
Q. 1	Circle the correct option i.e. A / B / C / D. Each part carries one mark.					
	(i)	Which	of the following cells does	NOT have nucleus?		
		A.	Goblet cell	В.	Smooth Muscle cell	

	Circle	the co	rrect option i.	e. A / B /	C / D. Each par	t carries	one mark.		
	(i)	Whic	h of the following	ng cells d	oes NOT have n	ucleus?			
		A.	Goblet cell			В.	Smooth Muscle cell		
		C.	Mature Red	Blood Ce	ell (RBC)	D.	Neutrophils		
(ii)	Whic	h of the following	ng is an ir	nclusion in cytop	lasm?				
		A.	Nucleus	B.	Glycogen	C.	Ribosomes	D.	None of these
	(iii)	Whic	h of the following	ng is used	d as a preservati	ve for cy	tological examination?		
		A.	Alcohol	B.	Xylene	C.	Canada Balsam	D.	Formalin
	(iv)	Whic	h stain is more	common	ly used for cytolo	ogical sp	ecimens obtained from	vagina?	
		A.	Pap stain	B.	Gram stain	C.	Giemsa stain	D.	H & E stain
	(v)	Whic	h of the following	ng statem	ents is INCORR	ECT abo	out cardiac Muscle cell?	2	
		A.	There are no	striation	is.	B.	Nucleus is central.		
		C.	It is involunt	ary in act	tion.	D.	It can not regenerate	9.	
	(vi)	Whic	h of the following	ng statem	ents is INCORR	ECT abo	out respiratory passage	s?	
		A.	Mucous mei	mbrane h	as pseudostratif	ied ciliate	ed columnar epithelium	in trachea	а
		B.	B. Trachea has a complete "O" shape cartilage						
		C.	Cartilage is	Hyaline t	уре				
		D.	Alveoli has	squamou	s epithelial cells				
	(vii)	Whic	h of the following	ng is NO	Γ a part of excret	ory syste	em?		
	A.	Urethra			В.	Ureters			
		C.	Prostate Gla	and		D.	Urinary bladder		
	(viii)	Whic	h of the following	ng statem	ents is CORREC	CT about	tovary?		
		A.	Surface is li	ned by si	mple cuboidal e	oithelium			
		B.	It is a gland	ular tissu	e.				
		C.	A single ova	ry is pres	sent on the poste	erior surf	ace of uterus.		
		D.	Remains fur	nctional a	ifter menopause	(ova is r	eleased)		
	(ix)	Whic	h of the following	ng statem	nents is INCORR	ECT abo	out nervous system?		
		A.	Basic cell is	Neuron.					
		B.	Supportive t	issue is f	ormed by Neuro	glial cells	5.		
		C.	Axon Hillock	has the	maximum conce	entration	of Nissl bodies.		

Motor sensations are transmitted by Axons. D. (x) Histamine is a chemical produced by_ B. Plasma cells Mast cells A. D. C. Fibroblasts Adipose cells For Examiner's use only:

Total Marks:

Marks Obtained:



ELEMENTARY ANATOMY AND MICROTECHNIQUES HSSC-I

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE:- Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

- Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 5 lines. (13 x 2 = 26)
 - (i) Name the fibres of connective tissue. What is the difference between them?
 - (ii) Draw and label longitudinal bone (Gross Anatomy of long bone).
 - (iii) What is Microtome? Give its types.
 - (iv) How will you prepare a solution of 10% formal saline?
 - (v) Name the Haematopoeitic tissues in adults. What is the difference between yellow and red bone marrow?
 - (vi) Draw and label a diagram of Stomach.
 - (vii) Draw and label the abdominal regions and name the important organs of each region.
 - (viii) What is the difference between Biopsy and Autopsy?
 - (ix) Name any four secretions of Pituitary gland. Also write their actions.
 - (x) Give four functions of bones.
 - (xi) What is a Frozen section? Also give its advantage.
 - (xii) Classify epithelial tissue according to layer of cells and shape of cells.
 - (xiii) What are Granulocytes and Agranulocytes seen in blood? How will you differentiate between them?

 Draw the diagrams.
 - (xiv) Name the 12 cranial nerves.
 - (xv) Draw and label longitudinal section of Kidney.
 - (xvi) Give four functions of Liver.
 - (xvii) Define Acid, Basic and Neutral stains. Which component of cells will be coloured by these.Give example of each type.

SECTION - C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 7 = 14)

- Q.3 Describe the steps of tissue processing.
- Q.4 Define and classify basic body tissues. Differentiate between the three types of Muscle tissues.
- Q.5 Write down the function of each part of the Digestive system. Also discuss the gastric mucosa.