

ELEMENTARY ANATOMY AND MICROTECHNIQUES HSSC-I SECTION - A (Marks 10)

Time	allov	ved: 1	0 Minutes	Version Number 1 8 5 5			
Note:	OMR	l Answ	er Sheet which should	be completed	in the	o be answered on the separately provided first 10 minutes and handed over to the d. Do not use lead pencil.	
Q. 1	Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.						
	Lungs are surrounded by double serous membranes called:					called:	
		A.	Peritoneum		B.	Pleura	
		C.	Meninges		D.	Mucosa	
	2)	The	The glands whose ducts enter the mouth are:				
		A.	Pancreas		₿.	Salivary glands	
		C.	Lacrimal glands		D.	Pitui tary gland	
	3)	The	enzyme ptyalin acts on:				
		A.	Proteins		B.	Sugar	
		C.	Lipids		D.	Salts	
	4)	The:	small hair like projections	in small intestin	ne are ca	lled as:	
		A.	Clilia		B.	Crypts	
		C.	Folds		D.	Villi	
	5) Inflammation of layers surrounding brain is called as:						
		A.	Encephalitis		В.	Arthritis	
		C.	Meningitis		D.	Pharyngitis	
	6) How many ovaries are present in female reproductive system?					system?	
		A.	2		B.	1	
		C.	3		D.	4	
	7)	7) The white inelastic fibrous bands which bind muscle to bone are called:					
		A.	Ligament		B.	Fascia	
		C.	Tendon		D.	Psoas	
	8)	Fine	cutting of paraffin embedo	ded tissue is do	ne at:		
		A.	$3-5 \mu$		B.	5 – 10 <i>μ</i>	
		C.	$1-2 \mu$	D.	10 – 1	12 μ	
	9)	In H & E staining the nuclei of the cells are stained by:					
		A.	Haematoxylin		В.	Eosin	
		C.	Both		D.	Not stained at all	
	10)	How many pairs of ribs are present in human thorax?					
		A.	6		В.	8	
		С	10		D	12	





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 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 5 lines. (13 x 2 = 26)
 - (i) Enumerate any 4 systems of body.
 - (ii) Define internal and external respiration.
 - (iii) Briefly explain functions of the Kidney.
 - (iv) What is nephron?
 - (v) What is cardiac cycle?
 - (vi) Enumerate cranial nerves.
 - (vii) Name major parts of brain.
 - (viii) Define fertilisation.
 - (ix) Enumerate bones of hand.
 - (x) Define knee joint.
 - (xi) Enumerate steps involved in preparation of histological slides.
 - (xii) Enumerate types of muscle tissues.
 - (xiii) What is impregnation?
 - (xiv) Write down functions of blood.
 - (xv) Write down different layers of skin.
 - (xvi) What are the parts of small intestine?
 - (xvii) Explain structure of arteries.

SECTION - C (Marks 14)

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

- **Q.3** a. Draw labelled diagram of human circulatory system.
 - **b.** Explain locations of endocrine glands.
- **Q.4** a. Define epithelium. Discuss different types of epithelium in detail.
 - b. How processed tissues are embedded to form paraffin blocks.
- Q.5 a. What is microtome? What are its types? How many kinds of knives are used for section cutting?
 - b. Enumerate different types of staining done in histology lab.