





# ELEMENTARY ANATOMY AND MICROTECHNIQUES HSSC-I

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**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 x 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.