



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

## ELEMENTARY ANATOMY AND MICROTECHNIQUES HSSC-I

### SECTION - A (Marks 10)

**Time allowed: 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) The smallest element of the body of which all parts are comprised is called as:
- |          |           |
|----------|-----------|
| A. Cell  | B. Tissue |
| C. Organ | D. System |
- (ii) Any structure which lies nearest to the median plane of the body than another is said to be:
- |             |              |
|-------------|--------------|
| A. Anterior | B. Posterior |
| C. Medial   | D. Lateral   |
- (iii) The vocal cords lie inside the:
- |              |            |
|--------------|------------|
| A. Esophagus | B. Pharynx |
| C. Trachea   | D. Larynx  |
- (iv) The average weight of the heart is:
- |                |                |
|----------------|----------------|
| A. 100 – 120 g | B. 50 – 70 g   |
| C. 220 – 260 g | D. 300 – 350 g |
- (v) The structural and functional units of kidneys are:
- |           |            |
|-----------|------------|
| A. Neuron | B. Nephron |
| C. Nerves | D. Alveoli |
- (vi) Progesterone is secreted of:
- |                    |                    |
|--------------------|--------------------|
| A. Testes          | B. corpus leuteum  |
| C. Pitutary glands | D. Seminal vesicle |
- (vii) Air passages are lined by:
- |                                 |                            |
|---------------------------------|----------------------------|
| A. Ciliated columnar epithelium | B. Simple epithelium       |
| C. Stratified epithelium        | D. Transitional epithelium |
- (viii) How many vertebrae are there in vertebral column:
- |       |       |
|-------|-------|
| A. 25 | B. 28 |
| C. 33 | D. 36 |
- (ix) Phalanges are bones of:
- |             |            |
|-------------|------------|
| A. Hand     | B. Pelvis  |
| C. Shoulder | D. Trachea |
- (x) Cubital fossa is space at the bend of:
- |             |           |
|-------------|-----------|
| A. Shoulder | B. Knee   |
| C. Elbow    | D. Pelvis |

**For Examiner's use only:**

**Total Marks:**

10

**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** Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 5 lines. ( 13 x 2 = 26 )

- (i) What is inspiration and expiration?
- (ii) Define position of the heart.
- (iii) What is reflex action?
- (iv) What is CSF?
- (v) Write down functions of ovaries.
- (vi) Enumerate bones of foot.
- (vii) What is diaphragm?
- (viii) Enumerate endocrine glands.
- (ix) Enumerate steps involved during tissue processing.
- (x) What is function of xylene used during tissue processing?
- (xi) What are types of microtome?
- (xii) Write down principle of microtome.
- (xiii) Explain purpose of mounting stained slides.
- (xiv) Name different mounting media used.
- (xv) Enumerate 04 type of epithelial tissue.
- (xvi) What are characteristics of human cell?
- (xvii) Name different histological stains used.

## 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 digestive system.
  - b) Enumerate different parts of urinary system.
- Q.4**
- a) What is connective tissue? Explain different types of connective tissue in detail.
  - b) Write a note on dehydration done during tissue processing.
- Q.5**
- a) What is H&E staining? Write down its procedure.
  - b) What do you mean by decalcification?