



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 Haematopoietic 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.