



ELEMENTARY ANATOMY AND MICROTECHNIQUES HSSC-I

70

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) Briefly describe the function of Mitochondria.
- (ii) Write down the two functions of Spleen.
- (iii) Write down the anatomy of Kidneys.
- (iv) What is inferior vena cava and where it is located?
- (v) What is the difference between serous and mucous membrane?
- (vi) What is mounting and which chemical is used for mounting?
- (vii) Write down the function of Insulin.
- (viii) Define clearing and write the function of Xylene.
- (ix) Name the types of Knives used in the histopathology lab.
- (x) Write down the principle of Alcean Blue Stain.
- (xi) Define the fixation process and name three fixatives.
- (xii) What is the role of mordant in staining?
- (xiii) What is the difference between protein and carbohydrates?
- (xiv) What is the function of vertebral column?
- (xv) Write down the composition of H/E Stain?
- (xvi) What is difference between clearing and dehydration?
- (xvii) What is the difference between external and Internal respiration?

SECTION – C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 7 = 14)

Q.3 Define the microtome, name the types of microtome and briefly describe the rotary microtome?

Q.4 Name the parts of respiratory system, describe the functions of lungs?

Q.5 Write down the histological examination of Pancreas?