



BASIC MEDICAL SCIENCES HSSC-I

SECTION – A (Marks 10)

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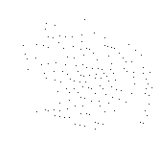
Time allowed: 10 Minutes

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Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which 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 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.

- 1) The other name of fat cell is:
A. Chondrocytes
B. Adipocytes
C. Leukocytes
D. None of these
- 2) Sigmoid colon is present in:
A. Cranial cavity
B. Pelvic cavity
C. Abdominal cavity
D. Thoracic cavity
- 3) The organelle of the cell, that plays an important role in cell division is:
A. Mitochondria
B. Ribosomes
C. Centrosomes
D. Golgi bodies
- 4) The functional unit of respiratory system is:
A. Alveoli
B. Lobule
C. Nephron
D. Neuron
- 5) Which artery originates firstly from aorta, soon after emerging from left ventricle?
A. Renal artery
B. Coronary artery
C. Pulmonary artery
D. Brachial artery
- 6) Name the parts forming Brain stem.
A. Mid brain only
B. Pons only
C. Medulla oblongata only
D. All of these
- 7) The example of sesamoid bone is:
A. Femur
B. Tibia
C. Humerus
D. Patella
- 8) Deglutition is the process of:
A. Chewing of food
B. Swallowing of food
C. Propulsion of food
D. Absorption of food
- 9) Which hormone is produced by kidney?
A. Erythropoiten
B. Insulin
C. Glucagon
D. None of these
- 10) The exchange of substances / ions occurs across the membrane of:
A. Arteries
B. Veins
C. Capillaries
D. All of these



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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 all the 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 4 lines. (13 x 2 = 26)

- (i) Define cytology, histology and pathology.
- (ii) Write difference between passive and active transport.
- (iii) Name the contents of pelvic cavity.
- (iv) Write down the complete classification of Leukocytes, write normal values of WBC.
- (v) Write a note on position of heart in the body.
- (vi) Name the parts forming circulatory system.
- (vii) Write the factors effecting heart rate.
- (viii) Write the constituents of cerebrospinal fluid (CSF).
- (ix) Name the cranial nerves which supply eyes.
- (x) Name the bones of middle ear.
- (xi) Draw the labeled diagram of renal tract.
- (xii) Name the four main sinuses of body.
- (xiii) Name the organs forming respiratory system in correct order.
- (xiv) What is the function of Calcitonin in the body?
- (xv) Enlist the functions of large intestine, in order.
- (xvi) Write the functions of female reproductive system.
- (xvii) Name the muscles of breathing with their nerve supply.

SECTION – C (Marks 14)

Note: Attempt ALL the questions. All questions carry equal marks.

(2 x 7 = 14)

Q. 3 Write a note on:

- a. Urinary bladder b. Gall bladder

(OR)

- a. Draw the labeled diagram of 9 quadrants of abdomen.
b. Write the functions of kidney.

Q. 4 a. Draw the labeled diagram of humerus?

- b. Write down the functions of bones.

(OR)

Write a detailed note on spinal cord.

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PHILOSOPHY

Vertical text along the right edge of the page, possibly a page number or a reference code, appearing as a series of small, repeating characters.