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

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

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

103

## BASIC MEDICAL SCIENCES 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) Extrusion of waste materials through plasma membrane is known as:
 

A. Pinocytosis	B. Exocytosis
C. Phagocytosis	D. None of these
  
- (ii) All of these organs are in abdominal cavity except:
 

A. Liver	B. Pancreas
C. Urinary bladder	D. Spleen
  
- (iii) The scapula is an example of:
 

A. Irregular bone	B. Short bone
C. Flat bone	D. Long bone
  
- (iv) Calcitonin "hormone is secreted by:
 

A. Adrenal gland	B. Pituitary gland
C. Thyroid gland	D. Pancreas
  
- (v) The "Vestibule" and "Cochlea" are the parts of:
 

A. External ear	B. Middle ear
C. Inner ear	D. All of these
  
- (vi) The valve between left atrium and left ventricle is:
 

A. Tricuspid valve	B. Mitral valve
C. Pulmonary valve	D. Aortic valve
  
- (vii) The largest part of brain is:
 

A. Cerebellum	B. Medulla oblongata
C. Cerebrum	D. Thalamus
  
- (viii) The muscle, which helps in "Micturition" is:
 

A. Gluteal muscle contraction	B. Detrusor muscle contraction
C. Rectus abdominis contraction	D. Diaphragm muscle
  
- (ix) The amount of blood pumped by heart in one minute is:
 

A. 3 litres / min	B. 2 litres / min
C. 1 litre / min	D. 5 litres / min
  
- (x) The "True" statement regarding "Large-intestine" is:
 

A. It is 2.5 metres long	B. It begins at caecum and ends till anus
C. It is meant for digestion of proteins	D. All of these

**For Examiner's use only:**

**Total Marks:**

10

**Marks Obtained:**



# BASIC MEDICAL SCIENCES HSSC-I

104

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) What is plasma membrane, briefly discuss its structure?
- (ii) Name the contents of thoracic cavity.
- (iii) Write down the classification of bones.
- (iv) Name 12 cranial nerves in order.
- (v) What is the function of "insulin" and glucagon?
- (vi) What is the micturition?
- (vii) What is alimentary canal, name its organs?
- (viii) Name the organelles and inclusions in human cells.
- (ix) Draw a labelled diagram of neuron.
- (x) List the female reproductive organs.
- (xi) Define "Mastication" and "Deglutition".
- (xii) What is pleura? Briefly discuss.
- (xiii) Name the parts of pituitary gland and list their hormones.
- (xiv) What is the difference between active transport and facilitated transport?
- (xv) What is the functional unit of respiratory system?
- (xvi) Briefly discuss the differences between smooth muscle tissue and cardiac muscle tissue.
- (xvii) Name the parts forming circulatory system.

## SECTION – C (Marks 14)

**Note:** Attempt ALL the questions. All questions carry equal marks. (2 x 7 = 14)

**Q. 3** Draw a labelled diagram of Pancreas, describe its structure and function.

(OR)

Write in detail about microscopic structure of kidney.

- Q. 4**
- a. Draw a labelled diagram of stomach.
  - b. Write a note on cerebellum.

(OR)

Write a detail note on "Interior of heart".