

13046

11920

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN of the following:

20

- a) Write the role of mitochondria in energy production.
- b) Define Inflammation.
- c) List name of skull bone.
- d) Write the function of salivary gland.
- e) Define respiration.
- f) Enlist name of clotting factor.
- g) Write the function of skin.
- h) Define nerve impulse.
- i) List name of endocrine gland.
- j) Write the function of microfilament.
- k) Write types of tissue.
- l) List name of respiratory organs.
- m) Write the function of pineal gland.
- n) List name of cranial nerve.

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- 2. Attempt any FOUR of the following: 16**
- a) Explain the structure of human cell.
 - b) Write the types of epithelial tissue and their functions.
 - c) Define joint and write its classification.
 - d) Write the function of liver.
 - e) Define Dyspnoea. Write the role of Spirometry test in Dyspnoea.
 - f) Describe in detail human blood group system.
- 3. Attempt any FOUR of the following: 16**
- a) Describe in detail cell division.
 - b) Draw well labelled diagram of stomach and write its function.
 - c) Write the name of hormones and their function of adrenal gland.
 - d) Describe in detail ovarian cycle.
 - e) Explain the structure of skin.
 - f) Define tidal volume and vital capacity.
- 4. Attempt any FOUR of the following: 16**
- a) Describe in detail Lymphatic system.
 - b) Write about temperature regulation.
 - c) Describe in detail Autonomic Nervous system.
 - d) Write the position and function of Pancreas.
 - e) Describe in detail axial skeleton.
 - f) Write the structure and function of connective tissue.

5. Attempt any FOUR of the following:**16**

- a) Explain chemical activities within the cell.
- b) Write about male reproductive organ.
- c) Describe the Mechanism of respiration.
- d) Describe the phases of Menstrual cycle.
- e) Write about skin structure with diagram.
- f) Write anatomy and function of pituitary gland.

6. Attempt any FOUR of the following:**16**

- a) Write the composition and function of blood.
 - b) List sensory organs with their functions.
 - c) Describe in detail structure of Nerve.
 - d) Write position and function of thyroid gland.
 - e) Explain the mechanism of digestion with suitable diagram.
 - f) Explain the mechanism of coagulation of blood.
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