

17436

**11718**

**3 Hours / 100 Marks**

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) 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) Define cell.
- (b) List out different component's present in blood.
- (c) Define blood pressure.
- (d) Enlist the term instruments related to respiratory system.
- (e) Write any four functions of skin.
- (f) Mention name of hormones secreted by female reproductive system.
- (g) Draw neat labelled diagram of Neurons.
- (h) Enlist endocrine gland. (any two)
- (i) List out the instrument related to urinary system.
- (j) Write the classification of Nervous system.
- (k) List out any four function of blood.
- (l) List out the properties of cardiac muscle. (any two)
- (m) List out the function of kidney. (any two)
- (n) List of Instrument related to eye and ear.

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

- (a) List out different types of tissue and state their functions.
- (b) Write in detail about anatomy of Heart.
- (c) Describe the mechanisms of respiration.
- (d) Draw the diagram of digestive system and explain the process of digestion.
- (e) Explain spinal cord and its functions.
- (f) Write the classification of joint and draw neat labelled diagram of ball and socket joint.

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

- (a) Write the detail about anatomy and structure of kidney.
- (b) Explain any two types of muscles and also give their functions.
- (c) Explain : Depolarization and Repolarization of cell.
- (d) Describe the Autonomic Nervous system.
- (e) Explain the Mechanisms of gaseous exchange in Lungs.
- (f) List out the juices secreted by various digestive organs and their functions.

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

- (a) Describe the structure of Male reproductive system.
- (b) Describe central Nervous system.
- (c) Describe the physiology of hearing.

- (d) Write the position of pituitary gland and mention its functions.
- (e) Explain in detail structure of skin.
- (f) List of instruments related to heart and state the importance of ECG.

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

**16**

- (a) Explain ABO and Rh blood group system.
- (b) Explain the conduction system of Heart.
- (c) Describe the mechanism of urine formation.
- (d) Explain the structure and function of arteries.
- (e) List & define any two respiratory parameters.
- (f) Describe the peripheral nervous system.

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

**16**

- (a) Describe the internal structure of Human Heart.
  - (b) Write the classification and functions of Bones.
  - (c) List organs of respiratory system and also state their function.
  - (d) Describe internal structure and function of eye.
  - (e) Describe structure of the female reproductive system.
  - (f) List the organs of digestive system and also state their function.
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