

# 17436

14115

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Solve any five :**

**5 × 4 = 20**

- Define cell and mention organelles of cell.
- Describe cell electrophysiology repolarization.
- Name the different types of tissue.
- Describe Nervous tissue and state its function.
- State the functions of male hormones. (any 4)
- What are the connective tissues ?
- List the instruments related to heart.
- Name different organs of respiratory system.
- List of instrument related to digestive system.
- List of instrument related to nervous system.
- List the endocrine glands.



**P.T.O.**

- 2. Solve any two :** **16**
- (a) Classify the blood groups and explain the term universal donor and universal recipient.
  - (b) Describe ball and socket joints and draw a well label diagram of ball and socket joint.
  - (c) Describe the actions of oestrogens & progesterone.
- 3. Attempt any TWO :** **16**
- (a) Draw well labelled diagram of internal structure of heart, describe external structure of heart.
  - (b) What is blood pressure ? How is it recorded ?
  - (c) Describe the mechanism of respiration.
- 4. Solve any TWO :** **16**
- (a) Describe alveoli of lungs.
  - (b) Explain the functions of endocrine glands.
  - (c) Describe the action of enzymes in the digestion of protein.
- 5. Solve any TWO :** **16**
- (a) Describe mechanism of hearing.
  - (b) Describe central nervous system. How does it differ from autonomic nervous system ?
  - (c) How does kidney help to maintain water balance of body ?
- 6. Solve any TWO :** **16**
- (a) Discuss anatomy of eye with a sketch.
  - (b) Describe cerebellum and its function.
  - (c) Give the location of pituitary gland and mention its function.
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