

17436

16117

3 Hours / 100 Marks

Seat No.

--	--	--	--	--	--	--	--

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

Marks

1. **Attempt any TEN of the following:** **20**
- Define repolarization and depolarization.
 - Give functions of blood.
 - Give classification of bones.
 - List instruments related to heart.
 - State any two properties of cardiac muscles.
 - State the function of pharynx and larynx.
 - List instruments related to respiratory system.
 - Name the organs involved in digestive system. (any four)
 - Name the organs involved in the urinary system.
 - List the endocrine glands.
 - State the function of joints.

P.T.O.

- l) Define:
 - (i) Heart rate
 - (ii) Pulse rate
- m) State any two respiratory parameters.
- n) Give classification of blood vessels.

2. Attempt any TWO of the following: 16

- a) Draw and label the different organelles of the cell also state the function of each organelles.
- b) With the help of neat labelled diagram explain the working of heart.
- c) Describe cardiac muscles and its properties.

3. Attempt any FOUR of the following: 16

- a) State the function of bones and muscles. (two each)
- b) Give the mechanism of gas exchange in details.
- c) Explain in detail blood groups.
- d) Draw a neat labelled diagram of anatomy of respiratory system.
- e) Explain the term resting potential and action potential.
- f) State juices secreted by the various digestive organs and give one function of each.

4. Attempt any TWO of the following: 16

- a) Describe the anatomy of male reproductive organ with neat labelled diagram.
- b) List any four instruments related to digestive system.
- c) Draw the structure of skin and state any two function of skin.

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

- a) Describe composition of blood.
- b) Explain the mechanism by which respiration is controlled.
- c) Explain formation of urine.
- d) Describe the action of androgens and oestrogens.
- e) Sketch the structure of eye and label different part of it.
- f) State two function of any two endocrine glands.

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

- a) Distinguish between CNS and ANS (Write eight differences)
 - b) Draw structural diagram of spinal cord and explain the function of it.
 - c) List instruments related to nervous system and state the importance of peripheral nervous system.
-