

17436

15162

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) Assume suitable data, if necessary.

Marks

- 1. Attempt any TEN of the following:** **20**
- a) Enlist different types of tissues.
 - b) Define neurons.
 - c) Write any four functions of blood.
 - d) List out instruments related to heart.
 - e) Write the functions of skeletal muscles.
 - f) Write the names of endocrine glands.
 - g) Mention instruments related to urinary system.
 - h) Write any two functions of kidney.
 - i) Write the functions of male hormones.
 - j) Write cell electrophysiology repolarization.
 - k) Describe the composition of blood.
 - l) Write the name of juices secreted by digestive organs.
 - m) Draw well labelled diagram of internal structure of eye.
 - n) Write the classification of bones.
- 2. Attempt any TWO of the following:** **16**
- a) Define joint and classify the joints.
 - b) Describe the gross anatomy of respiratory system with a neat labelled diagram.
 - c) Describe in detail the central nervous system.

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- 3. Attempt any FOUR of the following:** **16**
- a) Describe cardiac muscle and its properties.
 - b) Write the functions of bone.
 - c) Write about lung volumes and capacities.
 - d) Describe urinary system with neat labelled diagram.
 - e) Write the functions of female hormones.
 - f) Define heart rate and pulse rate.
- 4. Attempt any TWO of the following:** **16**
- a) Define blood pressure. Write in detail measurement of blood pressure.
 - b) Describe in detail structure and function of skin.
 - c) Describe the anatomy of eye. Write the physiology of image formation.
- 5. Attempt any FOUR of the following:** **16**
- a) Explain in detail the conduction system of heart.
 - b) Describe the mechanism of gaseous exchange in the lungs.
 - c) Enlist the instruments related to digestive system. Give function of each.
 - d) Explain in detail about peripheral nervous system.
 - e) Give the location of thyroid gland. Mention its function.
 - f) Describe female reproductive system with neat labelled diagram.
- 6. Attempt any TWO of the following:** **16**
- a) Describe in detail structure and function of cell organelles.
 - b) Draw well labelled diagram of internal structure of ear and describe hearing mechanism.
 - c) Describe in detail mechanism of urine formation.
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