

22347

24225

3 Hours / 70 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 answer 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 FIVE of the following:** **10**
- a) Write functions of Bone.
 - b) Write any two diseases related to Cardiovascular system.
 - c) Write the function Kidney.
 - d) Draw structure of Thyroid gland.
 - e) Write different organs of digestive system.
 - f) Name the instruments related to Nervous system.
 - g) Write the function of testis in male reproductive system.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Write properties of Cardiac muscles.
 - b) State the function of following parts of respiratory system – Pharynx, Larynx, Bronchioles, Alveoli.
 - c) Draw a labelled structure of cell showing various organelles.
 - d) Explain the structure of heart.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the mechanism of respiration in detail.
 - b) Define the following terms and state their normal range – stroke volume and pulse rate.
 - c) Write the name of any two hormones along with functions secreted by the female reproductive system.
 - d) A patient with blood group AB+ requires immediate blood transfusion. Suggest type of blood that can be given to him. Justify the reason behind it.
- 4. Attempt any THREE of the following:** **12**
- a) Draw male reproductive system and state the function of any two parts.
 - b) Write any four types of Tissues with their functions.
 - c) Draw a neat labelled diagram of Eye.
 - d) Explain the use of following instruments – ECG machine and Stethoscope.
 - e) Explain the composition of blood and state the function of each.
- 5. Attempt any TWO of the following:** **12**
- a) Explain the mechanism of formation of Urine.
 - b) Differentiate between ANS and CNS.
 - c) Describe the structure of skin with neat sketch.

6. Attempt any TWO of the following:**12**

- a) Explain the functions of various digestive juices.
 - b) Describe the anatomy of ear with neat diagram.
 - c) Explain with neat sketch the function of spinal cord.
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