

# 22347

**21819**

**3 Hours / 70 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.
- (5) 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) List any two functions of bone.
- b) Define blood pressure and mention its normal value.
- c) List the instruments related to respiratory system.
- d) List organs of digestive system
- e) Give the function of testis in male reproductive system.
- f) Draw the structure of eye.
- g) Name the two instruments that can be helpful to the doctor for examine the urinary tract.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe the structure of heart.
  - b) State the function of following parts of respiratory system:
    - (i) Nose
    - (ii) Alveolar ducts
    - (iii) Bronchioles
    - (iv) Alveoli
  - c) Calculate the cardiac output, if a person has the resting heart rate 70 bpm and resting stroke volume of 70 ml/beat. Judge whether person will need medication on the basis of provided data.
  - d) Draw the female reproductive system and state function of ovaries and uterus.
- 3. Attempt any THREE of the following:** **12**
- a) Choose the blood group in the case of medical emergency where there is unavailability or shortage of patients blood group and justify the choice.
  - b) Describe the position and function of pituitary gland.
  - c) Describe the structure and function of cell organelles.
  - d) Define the following terms and give its normal range:
    - (i) Cardiac output
    - (ii) Pulse rate.
- 4. Attempt any THREE of the following:** **12**
- a) Define any four respiratory parameters.
  - b) Identify the diseases related to excretory system with justification.
  - c) Higher proportions of people living in hilly region are suffered from goiter. Justify it.
  - d) Give different types of tissues and their function.
  - e) Compare between CNS and ANS (any four points).

- 5. Attempt any TWO of the following:** **12**
- a) Explain Anatomy of urinary system with labeled diagram.
  - b) Describe with sketches the mechanism of human hearing.
  - c) Describe image formation of eye with neat sketch.
- 6. Attempt any TWO of the following:** **12**
- a) Explain structure of skin with suitable diagram.
  - b) Explain the mechanism of respiration.
  - c) Choose the relevant type of instrument for the diseases related to nervous system and explain it.
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