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21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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) 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) List different blood group.
- b) Give any two diseases related to cardiovascular system.
- c) List any two instruments used to detect respiratory diseases
- d) List any two organs of digestive system.
- e) Draw structure of Adrenal glands.
- f) Name the instruments related to Nervous system. (any two)
- g) Give any two functions of Kidney.

P.T.O.

- 2. Attempt any THREE of the following. 12**
- a) Describe structure of Heart.
 - b) Name any four parts involved in respiratory system with one function of each.
 - c) Calculate cardiac output if a person has resting heart rate of 72 beats/minute and resting stroke volume of 70 ml/beat. Judge whether person will need medication on basis of provided data.
 - d) Draw Male reproductive system and state the function of each organ.
- 3. Attempt any THREE of the following. 12**
- a) A patient with blood group A requires immediate blood transfusion, suggest type of blood that can be given to him. Also justify the reason behind it.
 - b) Name any two hormones along with its functions secreted by the pituitary gland.
 - c) Draw a labeled structure of cell showing various organelles.
 - d) List the instruments related to cardiovascular system. (Any four)
- 4. Attempt any THREE of the following. 12**
- a) Define any four respiratory parameters.
 - b) Identify the following diseases related to excretory system.
 - 1) Asthma
 - 2) Urethritis
 - 3) Bladder cancer
 - 4) Nephrosis
 - 5) Cardiac arrhythmia
 - 6) Renal calculi
 - c) Higher proportion of people living in hilly region are suffered from goitre. Justify it.
 - d) Give any four types of tissues and state their functions.
 - e) Draw and explain structure of Neuron.

5. Attempt any TWO of the following.**12**

- a) Describe Urinary system with labelled diagram.
- b) Explain anatomy of eye with neat sketch.
- c) Describe ANS and PNS in detail

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

- a) Explain structure of skin with suitable diagram.
 - b) Explain respiratory system with a neat diagram.
 - c) Identify the part of human body for transmitting sound waves to the brain and draw its structure.
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