

22347

11920

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 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
- List any two functions of joints.
 - Define heart rate and mention its normal value.
 - Name the instruments that can be helpful to doctor to examine the respiratory tract.
 - Give two functions of skin.
 - List endocrine glands.
 - Draw the structure of Neuron.
 - Name the organs involved in digestive system.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain anatomy of Heart with a neat labeled diagram.
 - 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 74 beats/min and stroke volume of 70 ml/beat. Judge whether person will need medication on the basis of provided data.
 - d) Name any two hormones with its functions secreted by thyroid gland.
- 3. Attempt any THREE of the following:** **12**
- a) A patient with blood group B requires immediate blood transfusion, suggest type of blood that can be given to him. Also justify the reason behind it.
 - b) Draw and explain female reproductive system.
 - c) Draw a labeled structure of cell showing various organelles.
 - d) Define blood pressure and give its normal value in adults. Also name the instrument used to measure blood pressure.
- 4. Attempt any THREE of the following:** **12**
- a) Normally a person breath air in and he bring oxygen into lungs, show the pathway of air inside the body with suitable diagram and explain it.
 - b) Describe function of nephron with a labeled diagram.
 - c) Identify the type of endocrine gland to be treated for the following symptoms found in children and explain that gland.
 - (i) Poor growth
 - (ii) Vision problem.
 - d) Explain classification of bones with examples.
 - e) Differentiate between CNS and ANS. (any four points)

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

- a) Describe mechanism of formation of urine.
- b) Describe anatomy of eye with suitable diagram.
- c) Explain mechanism of hearing with a neat labeled diagram.

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

- a) Explain anatomy of digestive system with a labeled diagram.
 - b) Explain respiratory system with a suitable diagram.
 - c) Describe central nervous system with a neat diagram.
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