

17436

21718

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.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

Marks

1. Attempt any TEN :

20

- (a) Types of tissues.
- (b) Define-Artery & Vein.
- (c) Name the organs structure included in respiratory system.
- (d) Function of Liver.
- (e) Function of hormones. (any two)
- (f) Name Biomedical instrument for ear.
- (g) State Image formation in eye.
- (h) Types of bones.
- (i) ABO blood grouping.
- (j) Distinguish between pulmonary artery and pulmonary vein.
- (k) Name the diseases of the respiratory system.
- (l) Functions of Kidney. (any two)

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2. Attempt any FOUR :**16**

- (a) Explain what do you mean by repolarization & depolarization.
- (b) Explain structure and function of cell.
- (c) Describe the flow of blood through the interior of the Heart.
- (d) Define the following terms :
 - (i) Blood pressure
 - (ii) Cardiac output
 - (iii) Heart rate
 - (iv) Blood flow
- (e) Define : (i) Vital capacity (ii) Tidal value (iii) FRC (iv) ERV.
- (f) Draw a labelled diagram of respiratory system & describe the mechanism of respiration.

3. Attempt any FOUR :**16**

- (a) Name any two instrument related to respiration and state the function of pharynx and larynx.
- (b) Draw and label the digestive system.
- (c) Draw a labelled diagram of T.S. of Kidney.
- (d) Describe male reproductive system.
- (e) Explain the functions of androgens and oestrogens.
- (f) Sketch the structure of eye and label it.

4. Attempt any FOUR :**16**

- (a) Name the Endocrine glands with the help of neat diagram.
- (b) Draw a labelled diagram showing different parts of brain.
- (c) Write the importance of spinal cord.
- (d) Draw labelled diagram of anatomy of ear.
- (e) Describe the process of urine formation.
- (f) List the structure included in digestive system.

5. Attempt any FOUR :**16**

- (a) Name diseases, their causes and instruments used related to Nervous system.
- (b) State composition of blood and mention functions of each constituent.
- (c) Define action potential and resting membrane potential.
- (d) Describe types of muscles and their functions.
- (e) Describe cerebellum with its function.
- (f) List the diseases of nervous system and list the instruments used related to nervous system.

6. Attempt any FOUR :**16**

- (a) Explain the digestion of food by various digestive juices secreted by the organs of digestive system.
- (b) Define the term 'Reflex Action' and give its two examples.

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- (c) Explain the conduction system of heart.
 - (d) List two diseases and two related instruments used for cardio vascular system.
 - (e) Define joints and explain the different types of joints present in human body.
 - (f) Draw the structure of Urinary bladder and explain the function of it.
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