

17436

16172

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.

Marks

1. Attempt any TEN of the following :

20

- (a) Write any two function of blood.
- (b) List the instrument related to heart.
- (c) Name different organs of digestive system.
- (d) Identify the instrument related Respiratory system.
- (e) Write any two function of kidney.
- (f) Give two function of joint.
- (g) List the instrument related to nervous system.
- (h) Write any two function of skeletal muscle.
- (i) Define blood pressure. Write normal value of blood pressure in adult.

- (j) List any two function of skin.
- (k) List the endocrine glands.
- (l) Write any two functions of ear.
- (m) State the function of retina.
- (n) List any two instrument related to urinary system.

2. Attempt any FOUR :

16

- (a) Draw the structure of cell and mention organelles of cell.
- (b) Classify the joints.
- (c) Describe anatomy of heart with a neat labelled diagram.
- (d) Mention the juices secreted by digestive organs and their function.
- (e) Describe the anatomy of urinary system with a neat labelled diagram.
- (f) Describe the structure of spinal cord.

3. Attempt any FOUR :

16

- (a) Name the different types of tissue.
- (b) Describe the conduction system of heart.
- (c) Describe gas exchange in lungs.
- (d) List any four instrument related to digestive system and write its function.
- (e) Draw the structure of neuron and describe it.
- (f) Give anatomy of eye with a sketch.

4. Attempt any FOUR :**16**

- (a) Classify the blood groups and describe it.
- (b) Mention functions of bone.
- (c) State properties of cardiac muscle.
- (d) Explain the mechanism of respiration.
- (e) Enlist hormones secreted by male reproductive organs with function of each.
- (f) Describe Central Nervous System with suitable diagram.

5. Attempt any FOUR :**16**

- (a) State the composition of blood and mention function of each constituent.
- (b) Compare artery and vein.
- (c) Define :
 - (i) Tidal volume
 - (ii) Vital capacity
- (d) Explain role of stomach and liver in digestive system.
- (e) Describe the structure of skin.
- (f) Draw the outline structure of female reproductive system.

P.T.O.

6. Attempt any FOUR :**16**

- (a) Explain meaning of :
 - (i) Heart rate
 - (ii) Cardiac output
 - (b) Draw a labelled diagram of respiratory system.
 - (c) Enlist the organs of male and female reproductive system.
 - (d) Describe autonomic nervous system.
 - (e) Describe the hearing mechanism.
 - (f) Enlist the names of hormones secreted by anterior pituitary gland (lobe) and state their function.
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