

313328

12425

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 cell.
- (b) Define cardiac output and give its normal value of human being.
- (c) Draw the structure of nephron.
- (d) List any two hormones secreted by male reproductive system.
- (e) State the function of retina.
- (f) List any two endocrine glands.
- (g) List any two functions of blood.

2. Attempt any THREE of the following :

12

- (a) Draw the structure of female reproductive system.
- (b) Describe the mechanism of urine formation.



- (c) Identify the part of the brain that helps in co-ordinating muscle movements and draw a neat diagram of human brain.
- (d) Identify the position of pituitary gland and mention its function.

3. Attempt any THREE of the following :

12

- (a) Identify the blood group which is considered as a universal donor and universal recipient and give its reason.
- (b) Explain conduction system of the heart.
- (c) List the organs of digestive system and state the function of spleen.
- (d) Identify following instruments that is related to respiratory system. State its function :
 - (i) EEG machine
 - (ii) Audiometer
 - (iii) Spirometer
 - (iv) ECG machine

4. Attempt any THREE of the following :

12

- (a) Explain the role of stomach and liver in digestive system.
- (b) Give the significance of following hormone in female reproductive system :
 - (i) Oestrogen
 - (ii) Progesterone
- (c) Describe the structure of skin.
- (d) Identify the part of eye that absorbs, focuses and directs incoming light to the retina and draw the neat labelled diagram of eye.
- (e) State the function of following :
 - (i) Brochi
 - (ii) Trachea

5. Attempt any TWO of the following : 12

- (a) Describe different types of tissues with neat sketch and give its function.
- (b) Describe the anatomy of ear with neat sketch.
- (c) Give the significance of cardiac muscle and describe its properties.

6. Attempt any TWO of the following : 12

- (a) Describe the composition of blood.
 - (b) Describe the structure of heart.
 - (c) Give the significance of following juices in digestive system :
 - (i) Gastric juice
 - (ii) Pancreatic juice
 - (iii) Bile juice
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