

0809

15116

3 Hours / 80 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any EIGHT of the following :

8 × 2 = 16

- Define term cytology and Haematology.
- What is menopause ?
- Name sutures of cranium.
- Name types of connective tissue.
- Mention parts of central nervous system.
- What is haemoglobin ? Write its normal value in male and female.
- State organs of female reproductive system.
- Name types of muscular tissue.
- Define true ribs and false ribs.
- Name different layers of skin.
- Name types of permanent teeth.
- Enlist organelles present in cytoplasm of cell.

2. Solve any FOUR of the following :

4 × 3 = 12

- Describe structure and functions of mitochondria.
- Define blood pressure. Write it's types.
- Name hormones of posterior lobe of pituitary gland with their functions.
- Write functions of hypothalamus.
- Describe structure and functions of stomach.
- Mention functions of blood.

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3. Solve any FOUR of the following : **4 × 3 = 12**

- (a) Define neuron. Draw and label it's structure.
- (b) Describe internal structure of heart.
- (c) Explain how skin helps for regulation of body temperature.
- (d) Give functions of spleen.
- (e) Explain structure and functions of uterus.
- (f) Name cartilages of larynx.

4. Solve any FOUR of the following : **4 × 3 = 12**

- (a) Define joint. Classify it.
- (b) Define respiration. Name organs of respiratory system.
- (c) Draw and label urinary system.
- (d) Write effect of hyopsecretion and hypersecretion of growth hormone.
- (e) Enlist cranial nerves.
- (f) Write composition and functions of pancreatic juice.

5. Solve any FOUR of the following : **4 × 3 = 12**

- (a) Define meninges. Enlist it.
- (b) Define term (any **two**) :
 - (i) Systole
 - (ii) Hypotension
 - (iii) Angina pectoris
- (c) What is puberty ? State physical and physiological changes that occurs at puberty in female.
- (d) What is auditory assicle ? Write its functions.
- (e) Explain how digestion of protein takes place.
- (f) Define any **two** of following :
 - (i) Vital capacity
 - (ii) Inspiratory reserve volume
 - (iii) Expiratory reserve volume

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6. Solve any FOUR of the following :

$4 \times 4 = 16$

- (a) Write in detail about pulmonary circulation.
 - (b) Draw sketch of digestive system. Label it.
 - (c) Write composition of blood in detail.
 - (d) Give functions of cerebrum.
 - (e) Name hormones of adrenal cortex along with functions.
 - (f) Explain how kidney helps for maintenance of water balance.
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