

2021-24

Time : 3 hours

Full Marks : 60

Pass Marks : 24

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

**Group - A
(Compulsory)**

1. Choose the correct answer of the following :

1×10 = 10

(a) Which type of tissues form glands ?

- (i) Epithelial tissue (ii) Connective tissue
(iii) Nervous tissue (iv) Muscle fibre

(b) Which layer of epidermis is thickest at the sole ?

- (i) Stratum granulosum
 (ii) Stratum comeum

NB - 2/3

(Turn over)

~~(iii)~~ Stratum germinativum

(iv) Stratum lucidum

(c) Bone forming cells are called :

- (i) Osteoblasts (ii) Chondroblasts
(iii) Osteoclasts (iv) Chondrocytes

(d) A nerve impulse leave a neuron through the :

- (i) Dendrite (ii) Cyton
 (iii) Axon (iv) Nissl bodies

(e) Schwann cell and nodes of ranvier are present in :

- (i) Muscles (ii) Cartilages
(iii) Bone Cells (iv) Neurons

(f) The colour of the eye is due to :

- (i) Sclera (ii) Iris
 (iii) Pupil (iv) Cornea

(g) The sound becomes painful above decibel of :

- (i) 70 (ii) 80
 (iii) 140 (iv) 160

(h) The basic unit of muscle contraction is :

- (i) Sarcomere (ii) Tropomyosin
(iii) Myosin (iv) Actin

NB - 2/3

(2)

Contd.

(i) Which one of the following is both exocrine and endocrine gland ?

(i) Liver (ii) Thyroid

(iii) Pancreas (iv) Adrenal

(j) Human beings are better adapted to

(i) Cold climate (ii) Hot climate

(iii) Moderate climate (iv) No climate

2. Write True or False for the following. $1 \times 5 = 5$

(a) In the nerve cell dendrite serves to bring the impulse from outside.

(b) End to end orientation of the process of two neurons is called conduction.

(c) The Cochlea occurs in inner ear.

(d) Goitre is due to deficiency of calcium.

(e) The tuna fish can maintain body temperature above that of water.

Group – B

Answer any three questions of the following :

$15 \times 3 = 45$

3. Describe briefly the structure and functions of various types of connective tissues.

NB – 2/3

(3)

(Turn over)

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4. Describe the structure of a neuron. Explain the transmission of nerve impulse through the nerve fibre.

5. Discuss the events which takes place menstrual cycle.

6. Describe the position structure and hormones secreted by the thyroid gland. Write down about the hyosecretion and hyper secretion of thyroid gland.

7. Write short notes on any two of the following :

(a) Cardiac muscle

(b) Schwann cells

(c) Human eye

(d) Hormones of testis

(e) Internal ear of human

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NB – 2/3 (800)

(4)

UESC — Zool

(CC – 6)

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