

3 SEM TDC ZOOH (CBCS) C 6

2023

(Nov/Dec)

ZOOLOGY

(Core)

Paper : C-6

**(Animal Physiology : Controlling and
Coordinating Systems)**

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks : 1×5=5

(a) The cell of the cartilage is known
as _____.

(b) The human skeleton consists of _____
bones.

(c) The junction of two neurons is called
_____.

(2)

(d) All the hormones secreted by adrenal cortex are chemically _____ in nature.

(e) Myelin sheath in CNS is formed from _____.

2. Distinguish between the following (any three) : $3 \times 3 = 9$

(a) Squamous and Cuboidal epithelial cells

(b) Cartilage and Bone

(c) Erythrocyte and Leucocyte

(d) Resting membrane potential and Action potential

(e) Histology of Testis and Ovary

3. Write short notes on any three of the following : $4 \times 3 = 12$

(a) Types of muscle

(b) Classification of hormones

(c) Physiology of vision

(d) Methods of contraception

(e) Placental hormones

(3)

4. What is muscular tissue? Write about the types of muscular tissue and the characteristics of muscle twitch. $1+5+3=9$

Or

What is neuron? Describe about the structure of neuron with suitable diagram. $1+5+3=9$

5. What is threshold stimulus? Write about the process of generation and transmission of action potential. $1+4+4=9$

Or

What is synapse? With the help of proper diagram, explain about the transmission of nerve impulse through neuromuscular junction. $1+8=9$

6. Write about the signal transduction pathways for steroidal and non-steroidal hormone. 9

Or

Write about the hormones secreted by pituitary gland and their mechanism of action. $5+4=9$
