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3 SEM TDC ZOOH (CBCS) C 6

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(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 main bone cell is _____.
- (b) In muscle fibres, the myofibrils are enclosed by _____.
- (c) The junction of two neurons is called _____.
- (d) Estrogen is secreted by _____.
- (e) Any method that prevents pregnancy is called _____.

(2)

2. (a) Distinguish between the following (any three) : $2 \times 3 = 6$

(i) Simple epithelium and Stratified epithelium

(ii) Blood and Lymph

(iii) Myelinated and Non-myelinated nerve fibres

(iv) Steroidal and Non-steroidal hormones

(b) Write short notes on (any two) : $3 \times 2 = 6$

(i) Placental hormone

(ii) Structure of neuron

(iii) Characteristics of muscle twitch

(iv) Bone growth and resorption

3. Describe the histological structure of muscle with suitable diagram. $6 + 3 = 9$

Or

Write a note on the structure and function of epithelial tissue. $6 + 3 = 9$

4. What are threshold stimulus and resting membrane potential? Describe the mechanism of generation of action potential. $2 + 7 = 9$

(3)

Or

What is synapse? Write a note on synaptic transmission and neuromuscular junction.

$1 + 8 = 9$

5. What is puberty? Describe the histology of ovary with suitable diagram. $2 + 7 = 9$

Or

Write a note on the methods of contraception in male and female.

9

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

9

Or

Define hormone. Write a note on the classification of hormone.

$1 + 8 = 9$
