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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 cell body of a neuron is called _____.

(b) Ovulation is induced by a hormone called _____.

(c) In a muscle fibre, Ca^{2+} is stored in _____.

(d) _____ is a hyperglycemic hormone.

(e) Bone is a type of _____ tissue.

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(Turn Over)

(2)

2. Distinguish between any two of the following : 3×2=6

- (a) Skeletal muscle and Cardiac muscle
- (b) Blood and Lymph
- (c) Adenohypophysis and Neurohypophysis

3. Write short notes on any two of the following : 3×2=6

- (a) Role of parathormone
- (b) Cartilage
- (c) Functions of epithelial tissue

4. Write illustrative notes on any two of the following : 4½×2=9

- (a) Spermatogenesis
- (b) Anatomical structure of adrenal gland
- (c) Hormones of pancreas

5. What is synapse? Give an account on the synaptic transmission with suitable diagram. 1+8=9

Or

Describe the structure of cochlea. Give an account on the physiology of hearing in human with suitable diagram. 3+6=9

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(Continued)

(3)

6. What is sarcomere? Describe the mechanism involved in muscle contraction with diagram. 2+7=9

Or

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

7. Name the hormones of thyroid gland and mention their functions. 3+6=9

Or

Why is hypothalamus called neuroendocrine gland? Discuss the principal nuclei involved in neuroendocrine control of anterior pituitary. 2+7=9

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