

2022

3rd Semester Examination

ZOOLOGY (Honours)

Paper : C 6-T

(Animal Physiology : Controlling and  
Coordinating System)

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

1. Answer any *five* questions : 2×5=10

- (a) What do you mean reflex action?
- (b) What is thermoglobulin? State its function.
- (c) Name two principal nuclei of hypothalamus which are responsible for secretion of ADH and oxytocin hormone.
- (d) What is Grave's disease?
- (e) Where from human chironic gonadotropin is secreted? Mention its biological importance. 1+1
- (f) Differentiate between preservative and fixative.



(g) What Corpus luteum? Mention its function. 1+1

(h) What is titin?

2. Answer any *four* questions : 5×4=20

(a) Briefly describe the uterine changes during menstrual cycle.

(b) Briefly describe how insulin hormone reduces the blood glucose level.

(c) Briefly describe how lipid soluble hormones work with diagam.

(d) Write a note on the cell types of anterior pituitary gland.

(e) What is sarcomere? Define 'A' band & 'I' band.

2+3

(f) Describe the mechanism of nerve impulse transmission through synapse.

3. Answer any *one* question : 10×1=10

(a) (i) Write the function of osteoblast and osteoclast cells.

(ii) Write a note on aldosterone escape. 4+6

(b) Describe the molecular and chemical basis of muscle contraction. 10

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