SH-III/Zoology-302C-6(T)/19

B.Sc. Semester III (Honours) Examination, 2018-19 ZOOLOGY

Course ID: 32612 Course Code: SHZOO-302C-6(T)

Course Title: T6-Animal Physiology: Controlling and Co-ordinating System

Time: 1 Hour 15 Minutes Full Marks: 25

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:	1×5=5
	(a) Differentiate between neurohormone and neurotransmitter.	
	(b) What is signal amplification?	
	(c) What is Haversian canal?	
	(d) What do you mean by menarche and menopause.	
	(e) What is spermateleosis?	
	(f) Write down the name of one placental hormone and its function.	1/2+1/2=1
	(g) State the function of Kinesin-I.	
	(h) What is pituicyte?	
2.	Answer <i>any two</i> of the following:	5×2=10
	(a) Briefly describe the role of Ca ²⁺ ion in muscle contraction with proper illustration.	4+1=5
	(b) Briefly describe the mode of action of any steroid hormone. What is endemic Goiter	? 4+1=5
	(c) State the function of hormones secreted from the adrenal cortex.	
	(d) Describe and illustrate a typical bipolar neuron.	3+2=5
3.	Answer <i>any one</i> question:	10×1=10
	(a) Briefly describe the fertilization procedure in mammals. What is dictyate arrest?	8+2=10
	(b) "Nerve impulse propagation is unidirectional" — Justify the statement. Narrate the filament model of muscle contraction.	ne sliding 5+5=10