CBCS/B.Sc./Hons./3rd Sem./ZOOACOR06T/2020, held in 2021



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

ZOOACOR06T-ZOOLOGY (CC6)

Physiology: Controlling and Coordinating Systems

Time Allotted: 2 Hours

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

- 1. Answer any *eight* questions from the following:
 - (a) What is basal lamina?
 - (b) Define sarcomere.
 - (c) Give example of one glycoprotein hormone and one tyrosine-containing hormone.
 - (d) What is node of Ranvier?
 - (e) Distinguish between Basophils and Acidophils with one example of each.
 - (f) How does fibrocartilage differ from hyaline cartilage?
 - (g) What is corpus luteum?
 - (h) Differentiate between smooth and striated muscle.
 - (i) What is neurotransmitter? Give example.
 - (j) Where do you find yellow elastic connective tissue?
 - (k) What is transitional epithelium? Give example.
 - (1) Name a hormone affecting BMR.

2.		Answer any <i>three</i> questions from the following:		$3 \times 3 = 9$
	(a)	Classify and describe different types of epithelial tissue.		3
	(b)	Where do you find sertoli cells? State their functions.		2+1
	(c)	How action potential is generated in a neuron?		3
	(d)	Compare the two types of bone with respect to structure and location.		3
	(e)	Enumerate the histology of endocrine pancreas with diagram.		.3

Full Marks: 40

 $2 \times 8 = 16$

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	Answer any <i>three</i> questions from the following:	$5 \times 3 = 15$
(a)	State briefly the ultrastructure of skeletal muscle with labelled diagram.	3+2
(b)	Describe the structure of neuromuscular junction with suitable diagram.	3+2
(c)	State the mechanism of action of steroid hormone with illustration.	5
(d)	Describe the histological structure of mammalian seminiferous tubule with a labelled diagram.	3+2
(e)	Illustrate Haversian system of a mature mammalian bone with a labelled diagram.	3+2
	(b) (c) (d)	 (a) State briefly the ultrastructure of skeletal muscle with labelled diagram. (b) Describe the structure of neuromuscular junction with suitable diagram. (c) State the mechanism of action of steroid hormone with illustration. (d) Describe the histological structure of mammalian seminiferous tubule with a labelled

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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