Answer any eight questions from the following:

(b) What are absolute and relative refractory periods?

(d) What is Schwann cell? State its function.(e) What do you mean by paracrine signalling?

(f) Define resting membrane potential.



Time Allotted: 2 Hours

(a) What are C-cells?

(c) What are chondroblasts?

1.



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2019

ZOOACOR06T-ZOOLOGY (CC6)



Full Marks: 40

 $2 \times 8 = 16$

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.

	. ,	8 potential.	
	(g)	Which endocrine gland is present only during pregnancy? Name two hormones produced by it.	
	(h)	What do you mean by pseudo-stratified epithelium?	
		Name the receptor type that interacts with steroid hormones. State one unique feature of it.	
	(j)	Name the chromophil cells found in anterior pituitary and name one secretory product of each of these cells.	
	(k)	Which type of cartilage is most abundant in human body? State one unique feature of it.	
	(l)	How do compact bone and spongy bone differ?	
2.		Answer any three questions from the following:	$3 \times 3 = 9$
	(a)	What do you mean by reflex action and reflex arc?	3
	(b)	Write a note on lateral specialization of epithelial tissue.	3
	(c)	Name the most abundant connective tissue of human body. Draw a labelled diagram of adipocyte.	1+2
	(d)	What is the difference between myelinated and non-myelinated nerve fibres?	3
	(e)	Describe a mature Graafian follicle with a labelled diagram.	2+1
	(f)	What do you mean by excitation-contraction coupling? Explain briefly.	3
	(g)	Mention the ultrastructure of chemical synapse.	3
3.		Answer any three questions from the following:	5×3 = 15
	(a)	Classify hormones on the basis of their chemical nature.	5
	(b)	Why is pituitary considered as master gland? Discuss briefly the role of hypothalamo hypophyseal axis in regulating reproductive functions in human.	1+4
	(c)	Discuss Haversian system of a typical matured mammalian bone.	5
	(d)	Discuss the roles of sodium and potassium ions in the propagation of action potential.	5
	(e)	Write short notes on:	$2\frac{1}{2} + 2\frac{1}{2}$
		(i) Sarcomere, (ii) Na-K pump.	2 2 2
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