

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2022-23



Full Marks: 40

ZOOACOR06T-ZOOLOGY (CC6)

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 <i>eight</i> questions from the following:	$2 \times 8 = 16$
	(a)	State two functions of Sertoli cells.	
	(b)	What is areolar connective tissue?	
	(c)	What is motor end plate?	
	(d)	What do you mean by hypothalamo-hypophyseal portal system?	
	(e)	What is effector? Name the effector of cAMP and DAG.	
	(f)	What is C ¹⁹ steroid?	
	(g)	Name a peptide hormone secreted from thyroid gland and the cell from which it is secreted.	
	(h)	What is oocyte maturation inhibition factor?	
	()	Mention the function of calmodulin.	
	(j)	Which epithelial tissues line the interior of blood vessels and lining of oviduct respectively?	•
	(k)	Distinguish between osteomalacia and osteoporosis.	
	(l)	Mention different constituents of bone matrix.	
2.		Answer any <i>three</i> questions from the following:	$3\times3=9$
	(a)	What are reflexes? Discuss your opinion on whether reflexes are a more primitive or more advanced features of human nervous system.	1+2
	(b)	Mention the role of troponin, actin and tropomyosin in muscle contraction.	1+1+1
		Briefly explain the development of graafian follicle and the role of gonadotropins in this process.	$1\frac{1}{2}+1\frac{1}{2}$
	(d)	What are the two hormone producing cells in testis? Distinguish between primary spermatocytes and secondary spermatocytes.	1+2
	(e)	What is astrocyte? Mention different types of connective tissue.	1+2
3.		Answer any three questions from the following:	$5 \times 3 = 15$
		Describe mechanism of bone reabsorption. What do you mean by primary bone and secondary bone?	2+3
	(b)	What is refractory period? State the ionic basis of the generation of action potential.	2+3
		State the features of three types of cartilages and mention the places where they are found in the body.	5
	(d)	What are corticosteroids? Mention the layers of adrenal gland from which they are secreted. What is primary aldosteronism?	1+2+2
	(e)	What is antrum? What do you mean by polyspermy? How polyspermy is prevented?	1+1+3
		X	

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