

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2021-22

ZOOADSE03T-ZOOLOGY (DSE1/2)

Time Allotted: 2 Hours Full Marks: 40

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:	2×8 = 16
	(a)	What is C19 steroid?	
	(b)	What is acromegaly?	
	(c)	Write two functions of somatostatin.	
	(d)	Give examples of one hormone each from the following groups –	
		Peptide hormones, Steroid hormones, Eicosanoids.	
	(e)	Mention the source and function of ICSH.	
	(f)	What is the cause of Addison's disease?	
	(g)	What is LH surge?	
	(h)	Differentiate between polyestrous and monoestrous animals with examples.	
	(i)	What are parafollicular C cells? State their function.	
	(j)	Distinguish between diabetes insipidus and diabetes mellitus.	
	(k)	What is antral follicle?	
	(l)	Where from the glucocorticoids and mineralocorticoids are secreted?	
2.		Answer any <i>three</i> questions from the following:	$3\times3=9$
	(a)	Write the role of pineal gland in mammalian reproduction.	3
	(b)	Describe the effect of glucocorticoids on carbohydrate metabolism.	3
	(c)	Explain negative feedback mechanism of endocrine regulation with proper example.	2+1
	(d)	Discuss the role of thyroxine in increase of BMR. What is Grave's disease?	2+1

(e) State the name and functions of the hormones secreted by Sertoli Cells and

Leydig Cells.

1+2

CBCS/B.Sc./Hons./5th Sem./ZOOADSE03T/2021-22

3.	. Answer any <i>three</i> questions from the following:	$5 \times 3 = 15$
	(a) Describe the histological features of thyroid gland with suitable diagram.	3+2
	(b) Describe the bioassays of hormones using ELISA technique.	5
	(c) Compare the follicular and luteal phases of human menstrual cycle.	5
	(d) State the mechanism of action of steroid hormones with proper diagram.	3+2
	(e) What is infundibulum? Differentiate between acidophilic and basophilic found in adenohypophysis. Name the hormones secreted by these cells.	cells 1+2+2

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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