Answer any eight questions from the following:

(a) What are second messengers? Give example.



## WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2024-25



## ZOOADSE03T-ZOOLOGY (DSE1/2)

Time Allotted: 2 Hours

1.

5233

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.

	(b)	Mention the source of catecholamines. Why are they so named?	
	(c)	Name the different types of cell surface receptors.	
	(d)	State the cause and symptoms of Graves' disease.	
	(e)	What are eicosanoids? Give example.	
	(f)	Write the source and functions of inhibin in male and female.	
		Why vasopressin is named as ADH?	
	(h)	What are the major endocrine cells in islets of Langerhans? State their secretory products.	
	(i)	State the full form of SON and PVN.	
	(j)	What is corpus albicans?	
	(k)	Mention the source and function of melatonin.	
	(1)	Write any two differences between estrous and menstrual cycles.	
2.		Answer any three questions from the following:	$3 \times 3 = 9$
	(a)	State the differences between ELISA and RIA.	3
	(b)	What is Graafian follicle? State the hormones secreted from it. Draw a labelled diagram of Graafian follicle.	1+1+1
	(c)	What do you mean by feedback regulation of hormonal release? Explain the positive feedback mechanism with a proper example.	1+2
		Distinguish between Conn's disease and Cushing's syndrome.	3
		What is hypothalamo-pituitary axis? Name two hypothalamic hormones that control anterior pituitary.	1+2
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Account any More quantum from the Eddewing	
(a) What is remain crube? Were down the different plants of on characteristic features.	tions cache with 194
(b) Minition the assess observed nature and function of following be \$6.55. Superior, contrast	ones. 5
50) Why served hormous do not require second surrounger's mechanism of action.	Explain their 1-8
(d) Describe the terrological arraction of thyroid ghard with labelled	Augrain 512
(iii) Notice short name on (any man)  (ii) Destroic nections  (iii) Letter phone of menomial cycle  (iii) Serial coll	29-2-5