2021

ZOOLOGY — HONOURS

Paper: DSE-B-1

(Endocrinology)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

1.	(a) Why ADH is referred as a neurohormone?	
	(b) State the role of ADH in reabsorption of water in renal tubules.	2+3
2.	Write down important functions of prolactin in birds.	5
3.	Describe the IP ₃ – DAG pathway of any one hormone's action.	5
4.	State in brief the role of parathormone and Vit D ₃ in calcium homeostasis.	3+2
5.	Write short notes on: (a) Grave's disease	2.(1)(.1)()
	(b) Functions of Melanotropin in Teleost fishes and Reptiles.	2+(1½+1½)
6.	Discuss the Hypothalamo-Hypophyseal-Gonadal axis in female.	5
7.	State the principle and steps of competitive ELISA with an example.	2+2+1
8.	Discuss the role of glucagon on glycogenesis and neoglucogenesis.	2½+2½
9.	Mention important functions of thyroid hormones.	5
10.	(a) Write the histological features of adrenal cortex.(b) Name one amine and one glycoprotein hormone.	3+2
11.	Describe schematically the mechanism of action of any steroid hormone.	5
12.	Mention the name and characteristics of different stages of estrous cycle.	5
13.	Draw and describe the histological features of Graafian follicle.	2+3

(5th Sm.)-Zoology-H/DSE-B-1/CBCS	(2)
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- 14. Write the name of different cell types present in anterior pituitary. Name the hormones secreted from each cell type and one function of each hormone.
- 15. Mention the source and functions of following hormones:

21/2+21/2

- (a) Inhibin
- (b) Epinephrine.
