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B.Sc. (Semester V) (CBCS Ordinance)

EXAMINATION APRIL 2023

ZOOLOGY  
Endocrinology

[Total Marks: 80]

[Duration: 2 Hours]

- Instructions: i) All Questions are Compulsory.  
ii) Figures to the right indicate maximum marks.  
iii) Draw neat and labelled diagrams wherever necessary.

1. Answer Any Four of the following.

4×4=16

- Glucose homeostasis.
- Magnocellular elements of hypothalamus.
- Long loop feedback system of hormonal regulation of secretion.
- Chemical messengers.
- Division and nomenclature of hypophysis.
- Biological effects of oxytocin.

2. Answer Any Four of the following.

4×4=16

- Cretinism.
- Histology of parathyroid gland.
- Insulin dependent diabetes mellitus.
- Cushing's syndrome.
- Glucocorticoids.
- Corpus luteum.

3. A) Write a note on hypothalamic releasing and inhibiting hormones and their action on target organs.

6

OR

A) Describe the hypothalamo hypophyseal portal system.

6

B) Briefly explain endocrine role in calcium homeostasis.

6

4. A) Explain briefly histology of pars distalis and its hormonal functions.

6

OR

A) Give a brief account of disorders of growth hormone.

6

B) Give a brief account of positive and negative feedback system of hormonal regulation of secretion.

6

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5. A) Describe histological structure of thyroid follicles.

6

OR

- A) Write a note on biochemistry of thyroid hormones.

6

- B) Describe functional anatomy of islets of langerhans.

6

6. A) Describe briefly the zonation of adrenal cortex.

6

OR

- A) What are mineralocorticoids? Add a note on their biological functions.

6

- B) Write a note on endocrine components of the testis.

6