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**B.Sc. (Semester - V)
EXAMINATION NOVEMBER 2022**

**Zoology
Endocrinology**

[Duration : Two Hours]

[Total Marks :80]

Instructions:

- i) All questions are compulsory.
- ii) Figures to the right indicate maximum marks.
- iii) Draw neat and labelled diagrams wherever necessary.

Q.1 Answer any four of the following

4x4=16

- i) Glucose homeostasis.
- ii) Parvocellular elements of hypothalamus.
- iii) Negative feedback system of hormonal regulation of secretion.
- iv) Types of chemical messengers.
- v) Gross anatomy of hypophysis.
- vi) Disorders of growth hormone.

Q.2 Answer any four of the following

4x4=16

- A) Graves' disease.
- B) Parathyroid tetany.
- C) Islets of langerhans.
- D) Cushing's syndrome
- E) Catecholamines.
- F) Hormones of ovary.

Q.3 A) Write a note on hypothalamic nuclei and hypothalamo hypophyseal neurosecretory tracts.

6

OR

- A) Describe the functions of hypothalamic hormones.
- B) Briefly explain endocrine role in calcium homeostasis.

6

6

Q.4 A) Explain briefly hormones of neurohypophysis and their biological effects.

6

OR

- A) Write a note on hormones of adenohipophysis and their functions. 6
- B) Explain Long loop and short loop feedback regulation of hormonal secretion. 6
- Q.5 A) Describe briefly biochemistry of thyroid hormones. 6
- OR**
- A) Briefly explain the histology of parathyroid gland. 6
- B) Give a brief account of Diabetes mellitus. 6
- Q.6 A) Briefly explain the regulation of adrenocortical function. 6
- OR**
- A) Describe briefly the zones of adrenal cortex. 6
- B) Describe briefly the biological functions of placental hormones. 6