

2026

Zoology (Core)

Paper Code : ZL-CE-6344

Paper Name : Endocrinology

Time : 2 hours

Full Marks : 50

The figures in the margin indicate full marks for the questions.

1. Answer the following questions as directed : 1×4=4
 - a) The hormone responsible for lowering blood glucose level is :
 - i) Insulin
 - ii) Adrenaline
 - iii) Glucagon
 - iv) Thyroxine (Choose the correct answer)
 - b) The term hormone was introduced by _____. (Fill in the blank)
 - c) Pituitary cells are derived from specialised neural cell called _____. (Fill in the blank)
 - d) Cushing syndrome is caused due to excess secretion of :
 - i) Thyroxine
 - ii) Cortisol
 - iii) Insulin
 - iv) Aldosterone (Choose the correct answer)
2. Answer the following questions : 2×3=6
 - a) Why Government of India introduced iodide salt ?
 - b) Write two functions of melatonin.
 - c) Write two characteristics of steroid hormone.
3. Write short notes on (*any two*) : 5×2=10
 - a) Classification of hormones.

Contd.

- b) Synthesis of thyroxine.
- c) Hormones of adenohypophysis and their functions.
- d) Molecular mediators.

4. Answer the following questions (*any three*) : 10×3=30

- a) What is homeostasis ? Explain the mechanism of Ca^{++} homeostasis in the body. 2+8=10
- b) Describe the role of hypothalamo-hypophyseal axis in the regulation of ovarian activities. 10
- c) What is hormone receptor complex ? Explain the mechanism of action of protein hormone. 2+8=10
- d) What is hormonal dysfunction ? Write a note on various hormonal dysfunctions in organisms. 2+8=10
- e) Describe the histology of pineal gland. Write a note on the functions of the hormones secreted by the pineal gland. 4+6=10
- f) Explain the relationship between Yoga Chakras and endocrine glands with suitable diagram. 10

