

5 SEM TDC DSE ZOO (CBCS) 3 (H)

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(Nov/Dec)

ZOOLOGY

(Discipline Specific Elective)

(For Honours)

Paper : DSE-3

(**Endocrinology**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Fill in the blanks : 1×5=5

(a) _____ cells secrete testosterone hormone.

(b) Melatonin is secreted by _____ gland.

(c) _____ is a hormonal disorder resulting from the production of too much growth hormone by pituitary gland.

- (d) Exophthalmic goiter is caused by overactivity of _____ gland.
- (e) Cushing's syndrome occurs when there is an excess of the _____ hormone.

2. Write brief notes on any *four* of the following : 4×4=16

- (a) Characteristics of hormone
- (b) Hypothalamic nuclei and their functions
- (c) Hypothalamo-hypophysial portal system
- (d) Ultrastructure of pituitary gland
- (e) Pineal secretion in biological rhythms

3. Write a note on the history of endocrinology. 4+4=8
Add a note on neurohormones.

Or

What is hormone? Describe the classification of hormones. 2+6=8

4. Describe the histological structure of ovary with suitable diagram and write the endocrine functions. 5+3=8

Or

What do you mean by feedback mechanism? Write the physiological role of insulin and glucagon. 2+6=8

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(Continued)

5. Draw the ultrastructure of parathyroid gland. Explain how calcium is being regulated with suitable illustration. 3+5=8

Or

Describe the structure and function of thyroid gland. 4+4=8

6. What are hormone receptors? Add a note on endocrine disorders. 2+6=8

Or

What do you mean by second messenger? Explain the mechanism of steroid hormone. 2+6=8
