

[SZ - S 496 B]

M.Sc. DEGREE EXAMINATION

Zoology

Fourth Semester

ENDOCRINOLOGY AND ANIMAL BEHAVIOUR

(Effective from the admitted batch of 2022 - 2023)

Time : 3 hours

Max. Marks : 70

*Answer ONE question from each unit.
All questions carry equal marks.*

UNIT - I

1. (a) Differentiate between neuro hormones and neurotransmitters.
(b) Describe the mechanism of hormone action with reference the steroid hormones.

(OR)

2. (a) Discuss the chemistry, localization and action of vasopressin.
(b) Explain the physiological role of somatotropin and prolaction.

UNIT - II

3. (a) What are thyroid hormones? Explain their biosynthesis.
(b) Discuss the physiological role of androgens.

(OR)

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[SZ - S 496 B]

4. (a) Give an account on the action of hormones produced by adrenal cortex.
- (b) What is glucagon? Explain its biosynthesis and physiological action.

UNIT - III

5. (a) Discuss the hormonal control of reproduction in Mollusca and Echinodermata.
- (b) Write an account on the neuroendocrine regulation of gametogenesis in invertebrates.

(OR)

6. (a) Describe the neuro endocrine mechanism of moulting in insects.
- (b) Discuss the significance of hormones in health and diseases.

UNIT - IV

7. (a) Give an account on details of renin - angiotension systems and its importance.
- (b) Describe the synthesis of corticosteroid hormones.

(OR)

- 8A (a) Discuss the structure and function of gastrin family hormones.
- (b) Write an essay on aminocentesis and its significance.

[SZ - S 496 B]

UNIT - V

9. (a) Give an account on biological clocks in animals.
(b) Discuss the approaches and methods to study the behaviour of animals.

(OR)

- A 10. (a) Write notes on parental investment and reproductive success in animals.
(b) Explain domestication and behavioural changes in animals.

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