

2015

( 4th Semester )

ZOOLOGY

Paper : ZL-IV

( Endocrinology and Reproductive Biology )

Full Marks : 55

Time : 2½ hours

( PART : B—DESCRIPTIVE )

( Marks : 35 )

The questions are of equal value

1. Give an account of hormones of adenohipophysis of pituitary and their functions.

Or

Write a note on ovarian hormones and their functions.

2. Describe the mechanism of action of steroid hormones.

G15—550/263a

( Turn Over )

Or

Write notes on the following :

(a) Dwarfism

(b) Cretinism

3. Give an account of different insect hormones and their functions.

Or

Explain the hormonal regulation of calcium homeostasis in detail.

4. Write a detailed note on the process of spermatogenesis.

Or

Write short notes on the following :

(a) Structure of spermatozoa

(b) Hormones involved in oogenesis

5. Explain the different phases of menstrual cycle and their hormonal regulation.

Or

Discuss the use of chemical contraception in females.

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( 4th Semester )

**ZOOLOGY**

Paper : ZL-IV

**( Endocrinology and Reproductive Biology )**

( PART : A—OBJECTIVE )

( Marks : 20 )

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

Answer **all** questions

**SECTION—I**

( Marks : 5 )

Put a Tick (✓) mark against the correct answer in the corresponding brackets : 1×5=5

1. Which of the following is not a trophic hormone?

(a) GSH ( )

(b) FSH ( )

(c) LH ( )

(d) ACTH ( )

2. Cretinism is an endocrinal disorder, caused by

- (a) hypothyroidism ( )
- (b) hyperthyroidism ( )
- (c) Both (a) and (b) ( )
- (d) None of the above ( )

3. Which of the following is secreted by prothoracic gland?

- (a) Juvenile hormone ( )
- (b) Ecdysone ( )
- (c) Both (a) and (b) ( )
- (d) None of the above ( )

4. The end product of spermatogenesis is

(a) two haploid sperms ( )

(b) two diploid sperms ( )

(c) four haploid sperms ( )

(d) four diploid sperms ( )

5. Which of the following is considered to be the last phase of menstrual cycle?

(a) Proliferative phase ( )

(b) Destructive phase ( )

(c) Secretory phase ( )

(d) Ovulatory phase ( )

SECTION—II

( Marks : 15 )

Write short notes on the following :  $3 \times 5 = 15$

1. Progesterone

2. Diabetes mellitus

(a) ...

(b) ...

(c) ...

(d) ...

3. Which of the following is considered to be the last phase of menstrual cycle?

(a) Proliferative phase

(b) Destructive phase

(c) Secretory phase

(d) Involutionary phase

3. Pheromone

Write short notes on the following

1. Progesterone

4. Oogenesis

(4th Semester)

ZOOLOGY

Paper ZOL-IV

(Endocrinology and Reproductive Biology)

(PART - A - OBJECTIVE)

(Marks 20)

The figures in the margin indicate full marks for the questions

Answer all questions

SECTION - I

(Marks: 5)

Put a Tick (✓) mark against the correct answer in the corresponding brackets: (1×5=5)

1. Which of the following is not a trophic hormone?

(a) GSH

(b) TSH

(c) LH

(d) ACTH

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5. Estrous cycle

(a) Hypothyroidism

(b) Hyperthyroidism

(c) Both (a) and (b)

(d) None of the above

3. Which of the following is secreted by prothoracic gland?

(a) Juvenile hormone

(b) Ecdysone

(c) Both (a) and (b)

(d) None of the above \*\*\*