

**IV / zoo (iv)**

**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 adenohypophysis 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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( 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 ( )

( 4 )

SECTION—II

( Marks 15 )

3×5=15

Write short notes on the following :

1. Progesterone

2. Diabetes mellitus

**3. Pheromone**



4. Oogenesis

5. Estrous cycle

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