

**IV / zoo (iv)**

**2014**

**( 4th Semester )**

**ZOOLOGY**

**Paper : ZL-IV**

**( Endocrinology and Reproductive Biology )**

**Full Marks : 55**

**Time : 2 hours**

**( PART : B—DESCRIPTIVE )**

**( Marks : 35 )**

*The questions are of equal value*

- 1. Describe the structure and functions of pituitary gland.**

**Or**

**Give a detailed note on thyroid gland.**

- 2. Explain the mechanism of action of G-protein coupled receptor.**

**Or**

**Write short notes on the following :**

**(a) Diabetes mellitus**

**(b) Cretinism**

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**( Turn Over )**

3. Discuss the hormonal regulation of calcium homeostasis.

Or

What do you mean by biological rhythm? Give a detailed note.

4. Explain the process of oogenesis in detail.

Or

Describe the role of hormones involved in spermatogenesis.

5. Give a detailed note on use of chemical contraceptions in females.

Or

What do you mean by estrus cycle? Discuss the hormones involved in regulation of estrus cycle.

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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*

**SECTION—A**

( Multiple Choice )

( Marks : 5 )

- 1.** Put a tick (✓) mark against the correct answer in the corresponding brackets : 1×5=5

(a) Vasopressin is synthesised in

(i) anterior pituitary ( )

(ii) posterior pituitary ( )

(iii) hypothalamus ( )

(iv) adrenal ( )

(b) Dwarfism is caused by due to hyposecretion of

(i) FSH ( )

(ii) LH ( )

(iii) PRL ( )

(iv) GH ( )

(c) Which of the following is molting hormone?

(i) Juveline hormone ( )

(ii) Ecdysone ( )

(iii) Both (i) and (ii) ( )

(iv) None of the above ( )

( 3 )

(d) Inhibin is secreted by

(i) Leydig cell ( )

(ii) Sertoli cell ( )

(iii) spermatogonia ( )

(iv) macrophage ( )

(e) The absence of menstrual flow is called

(i) amenorrhea ( )

(ii) aterisa ( )

(iii) apoptosis ( )

(iv) None of the above ( )

( 4 )

SECTION—B

( Short Answer )

( Marks : 15 )

2. Write short notes on the following in 5-8 sentences each : 3×5=15

(a) Hormones of adrenal medulla

( 0 )

(b) Intracellular receptors

( 6 )

(c) Pheromones

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( 7 )

(d) Spermiogenesis

( ■ )

(e) Mid-cycle FSH/LH surge

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