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( 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 neurohypophysis of pituitary and their functions.

*Or*

Write a note on ovarian hormones and their functions.

2. Explain the role of insulin in body and different insulin related disorders.

*Or*

Write notes on (a) gigantism and (b) cretinism.

3. Give an account of different insect hormones and their role on metamorphosis.

*Or*

Explain the hormonal regulation of calcium homeostasis in detail.

4. Write a detailed note on hormonal regulation of spermatogenesis.

*Or*

Write short notes on (a) structure of spermatozoa and (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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Subject Code : ZOO/IV/04

Booklet No. **A**

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Date Stamp .....

**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**  
Subject .....  
Paper .....

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**INSTRUCTIONS TO CANDIDATES**

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**  
Roll No. ....  
Regn. No. ....  
Subject .....  
Paper .....  
Descriptive Type  
Booklet No. B .....

Signature of  
Scrutiniser(s)

Signature of  
Examiner(s)

Signature of  
Invigilator(s)

**ZOO/IV/04**

**2 0 1 7**

( 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—A

( 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 tropic hormone?

(a) GH/STH ( )

(b) FSH ( )

(c) LH ( )

(d) ACTH ( )

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( 2 )

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 hormones is responsible for lowering blood calcium level?

(a) Calcitonin ( )

(b) Parathormone ( )

(c) Both (a) and (b) ( )

(d) None of the above ( )

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( 3 )

4. The end product of spermatogenesis is

(a) two haploid sperms ( )

(b) two diploid sperms ( )

(c) four haploid sperms ( )

(d) four diploid sperms ( )

5. Release of ovum from ovarian follicles is a characteristic of which of the following phases of menstrual cycle?

(a) Proliferative phase ( )

(b) Destructive phase ( )

(c) Secretory phase ( )

(d) Ovulatory phase ( )

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( 4 )

SECTION—B

( Marks : 15 )

Write short notes on the following :

3×5=15

1. Testosterone

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( 5 )

**2. Dwarfism**

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( 6 )

**3. Pheromone**

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( 7 )

4. Structure of ovum

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( 8 )

5. Estrous cycle

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