

2016

(4th Semester)

ZOOLOGY

Paper : ZL-IV

(**Endocrinology and Reproductive Biology**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

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

1. Describe the structure and functions of thyroid glands. 7

Or

Give a brief outline classification of hormones. How are hormones transported?
2+5=7

2. Describe the mechanism of action of peptide hormones. 7

Or

Write notes on the following : 3½+3½=7

(a) G-protein coupled receptors

(b) Insulin

3. Discuss the biological rhythms and their regulation in animals. 7

Or

Discuss briefly the types of pheromone based on their functions. 7

4. Discuss the process of oogenesis. 7

Or

Write notes on the following : 3½+3½=7

(a) Spermiogenesis

(b) Structure of ovum

5. Discuss the phases and hormonal regulation of estrous cycle. 7

Or

Discuss the phases and hormonal regulation of menstrual cycle. 7

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., **2016**
Subject
Paper

.....

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To be filled in by the Candidate

DEGREE 4th Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

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.

Signature of
Scrutiniser(s)

Signature of
Examiner(s)

Signature of
Invigilator(s)

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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—A

(Marks : 5)

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

1. The pituitary hormone responsible for water retention in the body is

(a) vasopressin ()

(b) oxytocin ()

(c) prolactin ()

(d) ACTH ()

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(2)

2. Type-I diabetes is also known as

(a) obesity onset diabetes ()

(b) juvenile onset diabetes ()

(c) gestational diabetes ()

(d) All of the above ()

3. The hormone responsible for lowering calcium level in the blood is

(a) calcitonin ()

(b) parathormone ()

(c) thyroxine ()

(d) tri-iodothyronine ()

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(3)

4. Cell organelles which form majority of the middle piece of the sperm are

(a) endoplasmic reticulum ()

(b) Golgi apparatus ()

(c) mitochondria ()

(d) ribosome ()

5. are monoestrous animal.

(a) Pigs ()

(b) Cows ()

(c) Squirrels ()

(d) Foxes ()

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(4)

SECTION—B

(Marks : 15)

Write short notes on the following :

3×5=15

1. Pancreatic hormones and their functions

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(5)

2. Gigantism

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(6)

3. Insect hormones

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(7)

4. Vitellogenesis

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(8)

5. Oral contraceptives

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