

2016

(1st Semester)

ZOOLOGY

FIRST PAPER

(**Biosystematics and Biology of Non-chordates**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(*Marks : 35*)

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

1. Write a note on six-kingdom classification. 7

Or

Define the term 'species'. Write a note on taxonomic hierarchy. 2+5=7

2. Write an account on sexual reproduction in Protozoa. 7

Or

Classify non-chordates up to classes with examples. Differentiate between invertebrates and non-chordates. 4+3=7

3. What are corals? Write a brief account on different coral reefs. 1+6=7

Or

Write a brief account on canal system in Porifera. 7

4. Write down the specialized features of Onychophora with its affinities. 7

Or

Write copulation, fertilization and cocoon formation in earthworms. 7

5. Write an essay on metamorphosis in insects. 7

Or

What are torsion and detorsion? Describe the processes of torsion and detorsion. 2+5=7

Subject Code : **I**/ZOO (i)

Booklet No. **A**

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Date Stamp

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To be filled in by the Candidate

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DEGREE 1st Semester
(Arts / Science / Commerce /
.....) Exam., **2016**
Subject
Paper

To be filled in by the Candidate
DEGREE 1st 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)

I/ zoo (i)

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(1st Semester)

ZOOLOGY

FIRST PAPER

(Biosystematics and Biology of Non-chordates)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

Answer **all** questions

SECTION—I

(Marks : 5)

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

(a) Five-kingdom concept was introduced by

- (i) Ernst Mayr ()
- (ii) Ernst Haeckel ()
- (iii) Aristotle ()
- (iv) Carolus Linnaeus ()

/22

(2)

(b) The special type of binary fission where multi-nucleate Protozoa divides into two or more daughter individuals is called

- (i) budding ()
- (ii) multiple fission ()
- (iii) plasmotomy ()
- (iv) plasmogamy ()

(c) Radial symmetry is found in Phylum

- (i) Coelenterata ()
- (ii) Porifera ()
- (iii) Annelida ()
- (iv) Arthropoda ()

(d) The chief excretory organ in Platyhelminthes is

- (i) glandular organ ()
- (ii) canal system ()
- (iii) flame cell ()
- (iv) green gland ()

(e) Organ of orientation and equilibrium in prawn is

- (i) statocyst ()
- (ii) tactile organ ()
- (iii) compound eye ()
- (iv) integument ()

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(3)

SECTION—II

(Marks : 15)

2. Write short notes on the following : 3×5=15

(a) Biological species concept

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(4)

(b) Amoeboid movement

I/ZOO (i)/22

(5)

(c) Social insects

I/ZOO (i)/22

(6)

(d) Symmetry in animals

I/ZOO (i)/22

(7)

(e) Characters of Ctenophora

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I/ZOO (i)