

2 0 1 7

(CBCS)

(1st Semester)

ZOOLOGY

FIRST PAPER

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

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(*Marks : 50*)

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

1. Write an account on binomial system of nomenclature. 10

Or

Write a note on five-kingdom classification.

2. Give a brief outline classification of non-chordates with salient feature. 10

Or

Describe various modes of locomotion in protozoans.

3. What are corals? Explain the formation of coral reefs with suitable diagram. 2+8=10

Or

Give a brief account of polymorphism in Hydrozoa. 10

4. Write down the specialized features of Onychophora with its affinities. 8+2=10

Or

Describe the reproductive system of *Pheretima posthuma* with an illustrated diagram. 10

5. Write a note on excretory system of *Periplaneta americana*. 10

Or

Write a brief description on the water-vascular system in *Asterias*.

Subject Code : ZOO/I/EC/01

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Booklet No. **A**

Date Stamp

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To be filled in by the Candidate

CBCS
 DEGREE 1st Semester
 (Arts / Science / Commerce /
) Exam., **2017**

Subject

Paper

To be filled in by the Candidate

CBCS
 DEGREE 1st Semester
 (Arts / Science / Commerce /
) Exam., **2017**

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 1 (one) Hour 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)

ZOO/I/EC/01

2 0 1 7

(CBCS)

(1st Semester)

ZOOLOGY

FIRST PAPER

(Biosystematics and Biology of Non-chordates)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION—I

(Marks : 10)

- 1.** Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10

(a) Six-kingdom classification concept was first proposed by

(i) R. H. Whittaker ()

(ii) Carolus Linnaeus ()

(iii) Corolus Von Fillus ()

(iv) Cavalier-Smith ()

(2)

(b) Body can be divided into two halves in many plane in

(i) spherical symmetry ()

(ii) asymmetry ()

(iii) tetramerous symmetry ()

(iv) All of the above ()

(c) Flame cells are found in the phylum

(i) Nematoda ()

(ii) Platyhelminthes ()

(iii) Arthropoda ()

(iv) All of the above ()

(d) Amoeboid movement occurs by the formation of finger-like temporary processes is called

(i) pseudopodia ()

(ii) chaetopoda ()

(iii) parapodia ()

(iv) truepodia ()

(3)

(e) Animals that display some of the characteristics of both annelids and arthropods are called

(i) Aschelminthes ()

(ii) Racophora ()

(iii) Placophora ()

(iv) Onychophora ()

(f) Book lungs are the respiratory organs of

(i) scorpion ()

(ii) cockroach ()

(iii) earthworm ()

(iv) leech ()

(g) Reefs occur in circular shape where land is absent in the middle of the circle are

(i) fringing reef ()

(ii) barrier reef ()

(iii) atoll ()

(iv) None of the above ()

(4)

(h) Taxonomic hierarchy was introduced by

(i) Carolus Linnaeus ()

(ii) Ernst Haeckel ()

(iii) Lemmy King ()

(iv) Van Hall ()

(i) The division of individual Protozoa into two approximately equal parts is

(i) plasmotomy ()

(ii) plasmogamy ()

(iii) binary fission ()

(iv) multiple fission ()

(j) The effects of torsion are

(i) displacement of mantle cavity ()

(ii) looping in alimentary canal ()

(iii) endogastric coil ()

(iv) All of the above ()

(5)

SECTION—II

(Marks : 15)

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

(a) Three-domain system

Or

Taxonomic hierarchy

(6)

(b) Binary fission in Protozoa

Or

Conjugation in *Paramecium*

(7)

(c) Bilateral symmetry

Or

Difference between Gonozoid and Dactylozoid

(8)

(d) Reproductive system in Platyhelminthes

Or

Affinities of Ctenophora

(9)

(e) Detorsion in Gastropoda

Or

Insect metamorphosis
