

2 0 1 7

(3rd Semester)

ZOOLOGY

Paper : ZL-III

(**Evolution and Behaviour**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(*Marks : 35*)

The questions are of equal value

1. Explain the historical development based on Lamarckism.

Or

Write short notes on the following :

(a) Malaria and drug resistance

(b) Pepper moth evolution

2. Give detailed account of endosymbiotic theory.

Or

Discuss Cambrian explosion.

3. Describe zoogeographical realms with sketch map.

Or

Explain continental drift and plate tectonic.

4. Discuss the types of behaviour controlled by hormones.

Or

Give an account on dancing in bees.

5. Explain the social organization in animals.

Or

Discuss genetic control of behaviour.

Subject Code : ZOO/III/03

Booklet No. **A**

[Empty dashed box]

Date Stamp

To be filled in by the Candidate

DEGREE 3rd Semester
(Arts / Science / Commerce /
.....) Exam., **2017**
Subject
Paper

.....

[Empty dashed box]

To be filled in by the Candidate

DEGREE 3rd 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 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)

ZOO/III/03

2 0 1 7

(3rd Semester)

ZOOLOGY

Paper : ZL-III

(Evolution and Behaviour)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

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

(a) *The Origin of Species* was published by Darwin in

(i) 1856 ()

(ii) 1857 ()

(iii) 1858 ()

(iv) 1859 ()

/122

(2)

(b) Ebionts belong to kingdom

- (i) Monera ()
- (ii) Protista ()
- (iii) Eubacteria ()
- (iv) Archaeobacteria ()

(c) A form of mimicry in which an edible species resembles an inedible one is

- (i) aggressive ()
- (ii) Batesian ()
- (iii) Müllerian ()
- (iv) None of the above ()

(d) Any change in behaviour as a consequence of experience is

- (i) innate behaviour ()
- (ii) learned behaviour ()
- (iii) imprinting behaviour ()
- (iv) None of the above ()

ZOO/III/03/122

(3)

(e) Parental care is uncommon among

(i) reptiles ()

(ii) mammals ()

(iii) birds ()

(iv) amphibians ()

(4)

SECTION—B

(Marks : 15)

2. Write short notes on the following in 5 to 7 sentences each : 3×5=15
- (a) Sympatric speciation

ZOO/III/03/122

(5)

(b) Prebiotic soup theory

ZOO/III/03/122

(6)

(c) Camouflage

ZOO/III/03/122

(7)

(d) Altruism

ZOO/III/03/122

(8)

(e) Competition

8G—250/122

ZOO/III/03