

2 0 1 7

(5th Semester)

ZOOLOGY

Paper : ZL-VIII (B)

(**Entomology**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(*Marks : 35*)

The questions are of equal value

1. Write the general characters and classification of Insecta up to order.

Or

Describe the major insect pests of wheat.

2. Explain the male reproductive system of insect with suitable diagram.

Or

Describe the digestive system of insects with suitable diagram.

3. Explain the hormonal regulation of insect metamorphosis.

Or

Describe the social behaviour in insects.

4. Explain the life cycle and economic importance of honey bee.

Or

Explain the different types of hormones in insects and their applications.

5. Describe the biological control of insect pests and add a note on the advantages.

Or

Give an account of parasitic insects and their effects with examples.

★★★

Subject Code : ZOO/V/08 (b)

Booklet No. **A**

[Empty dashed box]

Date Stamp

To be filled in by the Candidate

DEGREE 5th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**
Subject
Paper

[Empty dashed box]

To be filled in by the Candidate

DEGREE 5th 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/V/08 (b)

2 0 1 7

(5th Semester)

ZOOLOGY

Paper : ZL-VIII (B)

(Entomology)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

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

1. Lacewings insects comes under the order

(a) Chiroptera ()

(b) Neuroptera ()

(c) Collembola ()

(d) Hemiptera ()

/231

(2)

2. Insect's exoskeleton is made up of

- (a) Chitin ()
- (b) Lignin ()
- (c) Lipid ()
- (d) None of the above ()

3. Caste system in honey bee is of

- (a) 2 types ()
- (b) 3 types ()
- (c) 4 types ()
- (d) None of the above ()

4. *Bombyx mori* is

- (a) silkworm ()
- (b) lac insect ()
- (c) honey bee ()
- (d) None of the above ()

ZOO/V/08 (b)/231

(3)

5. Which of the following is predatory insect?

- (a) Braconid wasps ()
- (b) Tachina flies ()
- (c) Lady beetles ()
- (d) None of the above ()

ZOO/V/08 (b)/231

(4)

SECTION—B

(Marks : 15)

Write short notes on the following in 5 to 8 sentences
each : 3×5=15

1. Insects collection

ZOO/V/08 (b)/231

(5)

2. Mouthparts of insects

ZOO/V/08 (b)/**231**

(6)

3. Hemimetabolous metamorphosis

ZOO/V/08 (b)/**231**

(7)

4. Economic importance of silkworm

ZOO/V/08 (b)/231

(8)

5. Chemical control of insect pests

8G—150/231

ZOO/V/08 (b)