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(5th Semester)

ZOOLOGY

Paper : ZL-VIII (B)

(Entomology)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

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

1. What is entomology? What are the methods used in collection of insects? Write their preservation. 1+3+3=7

Or

What is pest? Describe the salient features of the major insect pest of cotton. 1+6=7

2. Describe the structure and functions of insect mouthparts with a suitable diagram. 7

Or

Describe the different types of respiration occurred in insects. 7

3. Describe the different types of metamorphosis. 7

Or

Write an account of caste system in insects. 7

4. Explain the mechanism of action of insect hormones. 7

Or

Explain the life cycle and economic importance of silkworm. 7

5. Give an account of predatory insects and their effects. 7

Or

Write an account of integrated pest management. 7

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Subject Code : **V**/ZOO (viii) (B)

Booklet No. **A**

Date Stamp

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To be filled in by the Candidate

DEGREE 5th Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Subject

Paper

**To be filled in by the
Candidate**

DEGREE 5th 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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V/zoo (viii) (B)

2 0 1 6

(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. Termite belongs to the order of

(a) Collembola ()

(b) Isoptera ()

(c) Orthoptera ()

(d) Odonata ()

/150

(2)

2. *Pieris brassicae* is a pest of

- (a) sugarcane ()
- (b) vegetable ()
- (c) pulse crop ()
- (d) cotton ()

3. Siphoning type of mouthparts is found in

- (a) grasshopper ()
- (b) honeybee ()
- (c) butterfly ()
- (d) mosquito ()

4. There are total six types of castes in

- (a) ant ()
- (b) honeybee ()
- (c) termite ()
- (d) wasp ()

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(3)

5. Exchange of food among colony members by mouth is called

- (a) ecdysone ()
- (b) pheromone ()
- (c) swarming ()
- (d) trophallaxis ()

(4)

SECTION—B

(Marks : 15)

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

1. Insect body wall

(5)

2. Parasitic insect

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(6)

3. Natural control of insect pests

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(7)

4. Juvenile hormone

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(8)

5. Social behaviour of insects

★ ★ ★

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