MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: V (New)				
Course No.	: ENTO 353	Term	: I	Academic Year	: 2011-12
Credits	: 3(2+1)	Title	:	Crop Pests and Stored Grain Pests and their Management	
Day & Date	: Monday, 26.09.2011	Time	: 14.00 to 17.00	Total Marks	: 80

Note :
1. Solve **ANY EIGHT** questions from **SECTION "A"**.
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Enlist any four major pests of citrus with scientific name. Give the host plant, nature of damage and management practices of fruit sucking moth with scientific name of two species.

Q.2 Enlist the major pests of sugarcane by giving scientific name. Describe the nature of damage and management practices of sugarcane wooly aphid and top shoot borer.

Q.3 Give the site of oviposition and site of pupation of following pests:

a) Sesamum gall fly
b) Tomato fruit borer
c) *Achea janata*
d) Mango stem borer

Q.4 Enlist any four foliage feeder pests of sorghum with common and scientific name. Describe the nature of damage and management practices of sorghum shoot fly and midge fly.

Q.5 Give the detail information of Brinjal shoot and fruit borer on following points:

a) Scientific name with order
b) Nature of damage
c) Mechanical and biological control
d) Site of oviposition and pupation

Q.6 Enlist sucking pests of cotton with common and scientific name. Explain in detail the cotton bollworm complex along with scientific name, nature of damage and management practices.

Q.7 Give in detail the management practices of:

a) Stored grain pests
b) Locust
c) Potato cut worm
d) *Spodoptera litura*

Q.8 Give the scientific name, host plant, nature of damage and management practices of following pests.

a) Bark eating caterpillar
b) Mango hopper

Q.9 Write short notes on (Any Two)

1) White grub
2) Termite
3) Mustard sawfly
4) Blister beetle

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Q.10 Write scientific name, host plants, nature of damage and management practices Grapevine beetle and Guava mealy bug.

SECTION "B"

Q.11 a) Select appropriate answer and rewrite the sentence.

1) Dusting of sulphur is recommended against (Snail & sluge / Mite)
2) Dragging of rope in paddy field is management practice for (Gall fly / Caseworm)
3) Cabbage butterfly is _____ (Polyphagous / Oligophagous) pest.
4) White patches on onion leaves is due to _____ (Aphids / Thrips)

b) Do as directed.

1) State the damaging stage / s of groundnut leaf miner.
2) Name any two rodenticides.
3) Scientific name of vector that transmit the papaya mosaic disease.
4) Site of oviposition of soybean girdle beetle.

Q.12 a) Identify the pest from following symptoms.

1) Series of holes in fronds of coconut.
2) Silver shoot in paddy.
3) Formation of galleries in the seed and twisted appearance in tur pod.
4) Brown patch on guava fruit.

b) Fill in the blanks with appropriate word.

1) *Sternochetus mangiferae* completes _____ generations/s per year.
2) Clipping of infested shoot in okra is the management practice recommend for _____.
3) _____ is the promising nymphal and adult parasitoid of *Pyr perpusilla.*
4) _____ reproduce parthenogenetically and viviparously.

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