MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: V (New)	**Term**	: I	**Academic Year**	: 2016-17
Course No.	: ENTO 353	**Title**	: Crop Pests and Stored Grain Pests and their Management		
Credits	: 3(2+1)				
Day & Date	: Tuesday, 15.11.2016	**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 the major pests of sugarcane along with scientific name. Describe the nature of damage and management practices of sugarcane wooly aphids and top shoot borer.

Q.2 Give the site of oviposition and site of pupation of following pests.

a) Hairy caterpillar of sunflower

b) Tomato fruit borer

c) Potato tuber moth

d) Lemon butterfly

Q.3 Enlist pests of sorghum along with their scientific names. Give the host plants, nature of damage and management practices of jowar shoot fly

Q.4 Enlist the major pests of cotton with scientific name. Explain in detail the nature of damage and management practices of cotton bollworm complex.

Q.5 Give the nature of damage and management practices for *Leucinodes orbonalis* and *Plutella xylostella* infesting vegetable crops.

Q.6 Give the scientific name, host plants, nature of damage and management practices of the following.

a) Bark eating caterpillar

b) Mango hopper

Q.7 Enlist the stored grain pests and describe in detail the management practices.

Q.8 Give in detail the management practices of the following.

a) Termites

b) Locust

c) White grub

d) *Spodoptera litura*

Q.9 Write short notes (Any Two).

1) Chilli thrips
2) Udadya beetle
3) Fruit sucking moth

Q.10 Write scientific name, host plants, nature of damage and management practices of coconut rhinoceros beetle and chiku moth.

(P.T.O.)

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SECTION "B"

Q.11 Give the damaging stages/stage of following.

1) Paddy steam borer
2) Surface grasshopper
3) Sugarcane pyrilla
4) Tur plume moth
5) Groundnut leaf miner
6) Scale insect
7) Rhizome fly
8) Banana root stock weevil

Q.12 Do as directed.

1) Parasitoid for the control of *Pyrilla perpusilla* in sugarcane.
2) The reproduction in aphid is _____type.
3) Silvery shoot in paddy is damaging symptom of_____ insect.
4) Give the name of host plants for adult white grub.
5) White patches on onion leaves are characteristics symptom of _____infestation.
6) Name any two rodenticides.
7) Glistering zigzag tunnels on citrus leaves is due to_____.
8) Chalky appearance in sorghum grain is due to_____.

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