MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: **V (New)**	**Term**	: **I** **Academic Year** : **2013-14**
Course No.	: ENTO 353	**Title**	: **Crop Pests and Stored Grain Pests and their Management**
Credits	: 3(2+1)		
Day & Date	: Saturday, 26.10.2013	**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 four major pests of rice along with scientific name and describe nature of damage and management practices of rice stem borer and brown plant hopper.

Q.2 a) Give detailed account of white grub along with management practices.
b) Suggest management practices of cotton bollworms.

Q.3 a) Write management practices for borer complex of sugarcane.
b) Give nature of damage and management practices of coconut rhinoceros beetle and red palm weevil.

Q.4 Write nature of damage and management practices of the following pests. (Any four)
1) Termites 2) Sorghum shoot fly 3) Pollu beetle
4) Turmeric rhizome fly 5) Tobacco leaf eating caterpillar

Q.5 Enlist four major pests of citrus along with scientific name and describe nature of damage and management practices of fruit sucking moth and black fly.

Q.6 Write nature of damage and management practices of the following pests. (Any four)
1) Cotton Jassids 2) Sugarcane wooly aphid 3) Diamond back moth
4) Banana root stock weevil 5) Cashew tea mosquito bug

Q.7 Enlist preventive measures recommended for stored grain pests and describe four of them.

Q.8 a) Give host plants, nature of damage and management practices of chilli thrips and brinjal shoot and fruit borer.
b) Write scientific name, nature of damage and management practices of potato tuber moth and melon fruit fly.

Q.9 Give scientific name, host plants, nature of damage and management strategies of mango stem borer and anar caterpillar.

Q.10 Give measures to control following pests. (Any four)
1) Udadya beetle 2) Ber fruit borer 3) Onion thrips
4) Guava bark eating caterpillar 5) Tur plume moth

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SECTION "B"

Q.11 Give the site of pupation of the following pests.

1) Sorghum stem borer
2) Lemon butterfly
3) Castor semilooper
4) Capitulum borer
5) Mustard sawfly
6) Brinjal shoot and fruit borer
7) Sweet potato weevil
8) Chiku moth

Q.12 Fill in the blanks.

1) The site of oviposition of grasshopper is _____.
2) _____ is a fungal bio agent used to control crop pests.
3) The bud necrosis of groundnut is transmitted by_____.
4) The larval parasitoid *Goniozus nephantidis* is used to control _____ pest of coconut.
5) _____ is a host plant of tea mosquito bug.
6) A viral disease pigeon pea sterility is transmitted by _____.
7) The example of quarantine pest is _____.
8) The greening virus in citrus is transmitted by _____.

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