

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

PB 07

Semester	: V (New)	Term	: I	Academic Year	: 2010-11
Course No.	: ENTO 353	Title	: Crop Pests and Stored Grain Pests and their Management		
Credits	: 3(2+1)				
Day & Date	: Saturday, 23.10.2010	Time	: 14.00 to 17.00	Total Marks	: 80

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

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SECTION "A"

- Q.1 Give full account of pod borer complex of arhar along with management practices.
- Q.2 Enlist four major pests of citrus along with scientific name, order and describe nature of damage and management practices against fruit sucking moth and blackfly.
- Q.3 Enlist the primary and secondary insect pests of stored grains. Explain in brief the preventive and curative measures for their management.
- Q.4 a) Give the scientific name and nature of damage of jowar shoot fly and cotton jassids.
b) Write the host crops and management practices for banana root stock weevil and turmeric rhizome fly.
- Q.5 Give the nature of damage and management practices for the following pests.
1) Udadya beetle 2) Mango hopper 3) Sweet potato leaf eating caterpillar
4) Fruit fly 5) Brinjal shoot and fruit borer
- Q.6 Write the scientific name, hosts, nature of damage and management practices of stem boring pests of sugarcane.
- Q.7 Write short notes on (Any Four)
1) Rhinoceros beetle 2) Termite 3) Tobacco leaf eating caterpillar
4) Pollu beetle 5) Diamond back moth

SECTION "B"

- Q.8 Answer in one sentence /few words.
- 1) How many generations are completed by white grub in a year? 2 generations
 - 2) Who has put forth the phase theory of locust? Uvarov
 - 3) Write the site of pupation of army worm. Soil
 - 4) Write one example of international pest. Helicoverpa armigera
 - 5) Give the scientific name of bark eating caterpillar.

Indarbela quadripunctata

(P.T.O.)

- 6) Name the host crops of tea mosquito bug.
- 7) Which pest acts as a vector of chilli leaf curl disease?
- 8) On which plant part/s does the white grub feed?
- 9) Name the order of mustard sawfly.
- 10) Which is the predatory insect on white woolly aphid?

Q.9 Identify the pest from the following information.

- 1) Webbing in stored rice.
- 2) Hopper burn in paddy.
- 3) Mined and folded leaves of groundnut crop.
- 4) Sugary malady (Chikta) in jowar.
- 5) Body of the insect is covered with powdery white waxy secretion.
- 6) Acaricide is used for its control.
- 7) Fore wings with a broad greenish band in the middle.
- 8) Sunflower crop is defoliated.
- 9) Raking of soil around ber tree is advocated for its management.
- 10) Blackish appearance of safflower plant.

Q.10 a) State the damaging stage/s of the following pests.

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| 1) Thrips | 2) Paddy stem borer | 3) Red pumpkin beetle |
| 4) Scales | 5) Black headed caterpillar | |

b) Write the exact site of egg laying of the following pests.

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| 1) Grasshopper | 2) Whitefly | 3) Mango stem borer |
| 4) Anar caterpillar | 5) <i>Meridarchis scyroides</i> | |

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