

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: III (New)	Term	: First	Academic Year	: 2022-23
Course No.	: H/ENTO 232	Title	: Insect Pests of Vegetable, Ornamental and Spice Crops		
Credits	: 3(2+1)				
Day & Date	: Thursday, 09.02.2023	Time	: 9:00 to 12:00 hrs.	70 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 diagram wherever necessary.

SECTION 'A'

- Q.1 Write the scientific name, nature of damage and control measures for red pumpkin beetle and melon fruit fly.
- Q.2 State the nature of damage and control measures for the following pests (Any Four):
- a) Jasmine thrips b) Aster leaf hopper c) Gerbera mites
- d) Gladiolus seed corm maggot e) Jasmine budworm
- Q.3 Enlist five important pests of roses. Write in detail the nature of damage and control measures for rose aphid and rose bud borer with their scientific names.
- Q.4 Define surveillance. Enlist different sampling techniques and write in brief about the importance of ecology in insect pest management.
- Q.5 Write the nature of damage, host plants and suggest management strategies for the following pests (Any Two):
- a) Pollu beetle b) Cardamom thrips c) Turmeric rhizome fly
- Q.6 Describe in brief:
- a) IPM in protected cultivation.
- b) Management of pests of storage and processed vegetables, ornamentals and spices.
- Q.7 Enlist any five important pests of tomato and write in detail about the nature of damage and control measures of tomato fruit borer and white fly along with their scientific names.
- Q.8 Write short notes on (Any Two):
- a) Pea pod borer b) Insecticide residue c) Okra shoot and fruit borer
- Q.9 Write in detail the nature of damage, enlist host plants and suggest control measures for diamond back moth and cabbage butterfly.
- Q.10 State the nature of damage of the following pests:
- a) *Cylas formicarius* b) Cinnamon butterfly
- c) Onion thrips d) Potato tuber moth

(P.T.O.)

SECTION 'B'

Q.11 a) Give the site of oviposition of the following:

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|---------------------|-----------------------|
| 1) Epilachna beetle | 2) Bell pepper thrips |
| 3) Melon fruit fly | 4) Aster leaf hopper |

b) Give the site of pupation of the following:

- | | |
|--------------------|----------------------------------|
| 1) Lily moth | 2) Brinjal shoot and fruit borer |
| 3) Mustard saw fly | 4) Tomato leaf hopper |

Q.12 Do as directed:

- 1) Scientific name of sweet potato leaf eating caterpillar is _____.
- 2) First instar grub of blister beetle is called as _____.
- 3) What is the long form of *HaNPV*?
- 4) Damaging stage(s) of onion fly is/are _____.
- 5) Give the name of two important pests of *Amaranthus*.
- 6) The common name of *Sahyadrassus malabaricus* is _____.
- 7) Enlist the names of two systemic insecticides.
- 8) *Pentalonia nigronervosa* transmits _____ viral disease of cardamom.

