MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: **IV (New)**	Term	: **Second**	Academic Year	: **2021-22**
Course No.	: **H/ENTO 243**	Title	: **Insect Pests of Fruit , Plantation, Medicinal and Aromatic Crops**		
Credits	: **3 (2+1)**				
Day & Date	: **Wednesday, 21.09.2022**	Time	: 14:00 to 17:00 hrs	**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 diagram wherever necessary.

SECTION 'A'

Q.1 a) Enlist major pests of mango with scientific names.
b) Write in detail about nature of damage and management practices of mango hopper.

Q.2 a) Write beneficial and harmful aspects of insects.
b) Write the categories of pests based on their occurrence.

Q.3 Describe the nature of damage, site of oviposition and management practices of:
a) Citrus fruit sucking moth b) Lemon butterfly

Q.4 Write scientific name, marks of identification, nature of damage and control measures of:
a) Pomegranate fruit borer b) Grape thrips

Q.5 a) Enlist the pests of coconut with scientific names.
b) Describe the control measures of red palm weevil and black headed caterpillar.

Q.6 Write the nature of damage of the following pests:
a) Banana aphid b) Ber fruit fly
c) Chiku moth d) Spiraling whitefly

Q.7 Write short notes on (Any Two):
a) Integrated pest management of stored fruits
b) Pest surveillance and monitoring
c) Nature of damage and management practices of apple San Jose scale

Q.8 Write the nature of damage and management practices of:
a) Asparagus beetle in Shatavari b) Sphingid larva in Ashwagandha

Q.9 Write scientific name, marks of identification, nature of damage and control measures of:
a) Tea mosquito bug b) Cashew stem and root borer

Q.10 Suggest management practices for the following pests:
a) Coconut rhinoceros beetle b) Isabgol aphid
c) Stem borer in Vetivar crop d) Eriophyid mite in citronella

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SECTION 'B'

Q.11 a) Write the damaging stage(s) of the following pests:

1) Patchouli leaf caterpillar
2) Fruit sucking moth
3) Tingid bug
4) Ashwagandha ash weevil

b) Give the site of oviposition of the following pests:

1) Mango mealy bug
2) Guava fruit fly
3) Banana root weevil
4) Coconut black headed caterpillar

Q.12 Fill in the blanks:

1) _____ pest causes elongated short holes on grapevine leaves.
2) The full form of MRL is _____.
3) _____ pest is responsible for transmitting greening virus of citrus.
4) _____ pest is responsible for causing *Khar* malady on leaves in mango.
5) Bunchy top disease of banana is transmitted by_____.
6) Lemon butterfly is commonly known as _____.
7) The larval parasitoid _____ is used for the biological control of coconut black headed caterpillar.
8) _____ trap is recommended by Dr.BSKKV, Dapoli for effective monitoring and control of mango fruit fly.

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