MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: **IV (New)**	**Term**	: **II**	**Academic Year**	: **2018-19**
Course No.	: H/ENTO 243	**Title**	: **Insect Pests of Fruit , Plantation, Medicinal and Aromatic Crops**		
Credits	: 3 (2+1)				
Day & Date	: Friday, 10.05.2019	**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 pests of citrus with scientific names. Give the nature of damage and management practices for lemon butterfly and leaf minor.

Q.2 Describe nature of damage and control measures of the following pests.

a) Leaf webber of mentha
b) Ash weevil
c) Isabgol aphid
d) Wild brinjal shoot and fruit borer

Q.3 Describe nature of damage, site of oviposition and management practices for guava bark eating caterpillar and pomegranate butterfly.

Q.4 Write scientific name, nature of damage, management practices for banana rhizome weevil and coconut rhinoceros beetle.

Q.5 Describe nature of damage and control measures of the following pests.

a) Semilooper of davana
b) Rose thrips
c) Shoot borer of lemon grass
d) Citronella spittle bug

Q.6 Describe the marks of identification with scientific names of the following pests.

a) Indian meal moth
b) Woolly apple aphid
c) Mentha semilooper
d) Fruit sucking moth

Q.7 Write management strategies for the following pests.

a) Cutworm of opium
b) Black headed caterpillar
c) Mango stem borer
d) Grapevine flea beetle

Q.8 Describe nature of damage and control measures along with scientific name of peach leaf curl aphid and rubber bark eating caterpillar.

Q.9 Write short notes (Any Two).

a) Economic classification of insects
b) Importance of surveillance in IPM
c) Maximum residue limit

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Q.10 Describe nature of damage caused by the following pests.

a) Citrus black fly
b) Fig moth
c) Red flour beetle
d) Chiku moth

SECTION "B"

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

1) Khapra beetle
2) Ber fruit fly
3) Coffee stem borer
4) Sandalwood leaf webber
5) Apple tent caterpillar
6) Nerium moth
7) Sapota seed borer
8) Rice moth

Q.12 a) Match the following pairs.

'A'	'B'
1) *Bacillus thuringiensis*	a) Fungi
2) NPV	b) Parasitoid
3) *Verticillium lecanii*	c) Bacteria
4) *Trichogramma chilonis*	d) Virus

b) Do as directed.

1) Write the scientific name of opium capsule borer.
2) Which coloured sticky trap is used to monitor whitefly?
3) Which disease is transmitted by papaya aphid?
4) Name any two acaricides.

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