

M.Sc. (Ag.) Examination, 2016

Semester-III

Subject: Plant Protection

Course No.: AEN-506

Pests of Horticultural Crops & Their Management

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin

Answer any five questions

1. Write the scientific name with taxonomic position of the following pests which are causing the following damage symptoms. Suggest also suitable control measures for **any four** of the following: 2.5×4=10
 - a) Serpentine leaf miner on tomato leaves
 - b) Bored Okra fruits
 - c) Drying of cashew branches / stems
 - d) Skeletonization of cabbage leaf
 - e) Bored tomato fruits with greenish larva protruding outside
 - f) Pinholes found on potato tuber
 - g) Black excreta peeping out from potato tuber
2. Write the scientific name, taxonomic position and nature of damage symptoms of the following pests (**any five**): 2×5=10
 - a) Mango stone weevil
 - b) Red pumpkin beetle
 - c) Litchi erineum mite
 - d) Citrus fruit sucking moth
 - e) Betelvine shoot bug
 - f) Tea red spider mite
 - g) Banana pseudostem borer
 - h) Citrus psylla
3. Enumerate the insect pests of chilli with their scientific names. Give an account of biology, symptoms of damage and suitable management practices of chilli thrips and yellow mites. 2+2+2+4=10
4. Mention the insect pests with scientific names of mango. Write the life history and damage symptoms of mango hopper and mango stem borer. Suggest suitable control measures against them. 2+4+4=10
5. Mention the insect and acarine pests of egg plant. Give a brief account of brinjal shoot and fruit borer with reference to biology, damage symptoms and its integrated management practices. 2+2+2+4=10
6. Enlist the insect and acarine pests of coconut. While the nature of damage of any three major pests. Suggest suitable control measures against them. 2.5+4.5+3=10
7. List out the arthropod pests of cucurbitaceous vegetables with their scientific names. Give a brief account of cucurbit fruit fly with special emphasis to its biology, host range, damage symptoms & ecofriendly management practices. 2+1.5+1+1.5+4=10

8. Write short notes on **any four** of the following pests:

2.5×4=10

- a) *Phenacoccus solenopsis*
 - b) *Papilio demoleus*
 - c) *Bemisia tabaci*
 - d) *Plutella xylostella*
 - e) *Pentalonia nigronervosa*
 - f) *Tetranychus neocoleonicus*
 - g) *Tuta absoluta*
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