

**M.Sc. (Ag.) Semester-III Examination, 2016**

**Subject: Plant Protection**

**Course No.: AEN-506**

**Pests of Horticultural Crops and 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. Write 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) <i>Phenacoccus solenopsis</i>  | b) <i>Papillio demoleus</i>         |
| c) <i>Bemisia tabaci</i>          | d) <i>Plutella xylostella</i>       |
| e) <i>Pentalonia nigronervosa</i> | f) <i>Tetranychus neocoleonicus</i> |
| g) <i>Tuta absoluta</i>           |                                     |