Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18HO2017** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INSECT PESTS OF VEGETABLES, ORNAMENTALS AND SPICE CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | What is the symptom caused by brinjal shoot and fruit borer? | CO2 | 1 |
| 2. | Scientifically name the insect which is causing bronzing and hopper burn symptoms in bhendi leaves. | CO1 | 1 |
| 3. | Write the systematic position of tomato pin worm. | CO1 | 1 |
| 4. | Which non-insect pest is causing crinkling and curling of leaves in chillies? | CO2 | 1 |
| 5. | Mention a physical method adopted to control moringa hairy caterpillar. | CO3 | 1 |
| 6. | How the early stage of citrus butterfly larvae look like? | CO1 | 1 |
| 7. | Which insect causes shot holes on radish leaves? | CO2 | 1 |
| 8. | Name the trap crop raised against diamond back moth. | CO3 | 1 |
| 9. | What is the % of neem seed kernel extract used for spraying against a wide range of insect pests in vegetables? | CO3 | 1 |
| 10. | Name the pest which can damage potato both in field and storage. | CO1 | 1 |
| 11. | What is the symptom caused by the Thrips in Colacasia? | CO2 | 1 |
| 12. | What is the color of the adult yam beetle *Galerucida bicolor*? | CO1 | 1 |
| 13. | Write the damage symptoms caused by the cassava scale in tapioca. | CO2 | 1 |
| 14. | What is the organic material used for the control of scale insects in rose? | CO3 | 1 |
| 15. | Which jasmine type is susceptible to erineum mite? | CO3 | 1 |
| 16. | Which insect causes yellowing and drying of tender shoots in chrysanthemum? | CO2 | 1 |
| 17. | What is the marcation of Gloriosa leaf caterpillar *Polyalthia gloriosa*? | CO1 | 1 |
| 18. | Name the dipteran pest damaging lawn. | CO1 | 1 |
| 19. | Name the coleopteran insect attacking coriander seeds in storage. | CO4 | 1 |
| 20. | Name the pesticide banned for usage on vegetables. | CO4 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Elucidate Ginger and turmeric scale management. | CO3 | 5 |
| 22. | Elaborate on the Chemical control of cardamom thrips. | CO3 | 5 |
| 23. | Describe the Biology of pepper pollu beetle. | CO1 | 5 |
| 24. | Explain IPM of diamondback month in cabbage. | CO3 | 5 |
| 25. | List the pests of aswagandha and senna. | CO1 | 5 |
| 26. | Write the significance of post harvest interval for insecticide residue management. | CO4 | 5 |
| 27. | What is tolerance limit of pesticide residue and how it is calculated? | CO4 | 5 |
| 28. | What are the formulations of insecticides that can be safely used in vegetable ecosystems? | CO4 | 5 |
| 29. | Write the biology of amaranthus weevil. | CO1 | 5 |
| 30. | List few insect vectors transmitting plant diseases in vegetables and spices crops. | CO2 | 5 |
| 31. | Give some integrated management practices against giant African snail *Achatinafulica.* | CO3 | 5 |
| 32. | Enumerate some mite species occurring on vegetables and spices ornamental and give a list of latest molecules of acaricides. | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
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| 33. | a. | Describe the important pests of onion and garlic with their management practices. | CO1 | 8 |
| b. | Enumerate IPM for cucurbit fruit flies. | CO3 | 7 |
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| 34. | a. | Enumerate the sucking pests of chrysanthemum and crossandra with their control measures. | CO1&3 | 8 |
| b. | List out important sucking pests of curry leaf and coriander with their management methods. | CO1&3 | 7 |
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| 35. | a. | Write the damages caused by tamarind beetle and coffee bean beetle and their management. | CO4&3 | 8 |
| b. | What are the ways to eliminate insecticidal residues in vegetables? | CO4 | 7 |