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



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

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| **Code :** | **18HO1006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **IRRIGATION AND WEED MANAGEMENT IN HORTICULTURAL CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | | |
| 1. | | Define Irrigation. | CO1 | 1 |
| 2. | | Define Fertigation. | CO1 | 1 |
| 3. | | Define Herbigation. | CO1 | 1 |
| 4. | | What is hydrological cycle? | CO2 | 1 |
| 5. | | Anuual average rainfall of India is \_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 6. | | List out four sources of irrigation. | CO1 | 1 |
| 7. | | List out methods of irrigation. | CO1 | 1 |
| 8. | | Write down the drip components. | CO1 | 1 |
| 9. | | \_\_\_\_\_\_\_\_\_\_ is the critical stage for tomato. | CO1 | 1 |
| 10. | | Define water use efficiency. | CO2 | 1 |
| 11. | | Define weed. | CO2 | 1 |
| 12. | | Mention two problematic weeds. | CO2 | 1 |
| 13. | | Write down the beneficial effect of weeds. | CO2 | 1 |
| 14. | | What is alleopathy? | CO2 | 1 |
| 15. | | What is critical weed completion? | CO2 | 1 |
| 16. | | List out classification of herbicides. | CO2 | 1 |
| 17. | | Define biological weed control. | CO2 | 1 |
| 18. | | What is solarization? | CO2 | 1 |
| 19. | | List the merits of cultural method of weed control. | CO2 | 1 |
| 20. | | What is IWM? | CO2 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Write down the effects of water stress on horticultural crops. | CO1 | 5 |
| 22. | Mention the functions of water. | CO1 | 5 |
| 23. | What is field capacity and permanent wilting point? | CO1 | 5 |
| 24. | Write down the soil moisture constants. | CO1 | 5 |
| 25. | Write down the irrigation water qualities. | CO2 | 5 |
| 26. | What is water budgeting? | CO2 | 5 |
| 27. | Classify the weeds. | CO2 | 5 |
| 28. | Mention the different formulation of herbicides. | CO2 | 5 |
| 29. | What is weed shift? | CO2 | 5 |
| 30. | Write down the different methods of weed control. | CO2 | 5 |
| 31. | What is the unique character of weeds? | CO2 | 5 |
| 32. | What are the methods of propagation of weeds? | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Define drip irrigation. | CO2 | 7 |
| b. | Write down the detailed layout of one hectare banana. | CO2 | 8 |
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| 34. | a. | What is hysteresis? | CO3 | 7 |
| b. | Explain the soil moisture extraction pattern. | CO2 | 8 |
|  |  |  |  |  |
| 35. | a. | List out different aquatic weeds. | CO2 | 7 |
| b. | Write down the advantages and limitations of herbicide use in India. | CO2 | 8 |