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**End Semester Examination – Nov/Dec– 2018**

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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(20X1=20 MARKS)** | | |
| 1. | Define field capacity. | CO1 | 1 |
| 2. | What is potential evapotranspiration ? | CO1 | 1 |
| 3. | Explain infiltration. | CO1 | 1 |
| 4. | Define irrigation. | CO1 | 1 |
| 5. | What is water use efficiency? | CO1 | 1 |
| 6. | Explain microirrigation. | CO2 | 1 |
| 7. | Define the effective root zone. | CO1 | 1 |
| 8. | Explain capillary pores. | CO1 | 1 |
| 9. | Define drainage. | CO1 | 1 |
| 10. | Explain gradual widening technique in banana. | CO2 | 1 |
| 11. | Define weeds. | CO3 | 1 |
| 12. | Write herbicide rotation. | CO3 | 1 |
| 13. | Explain antidotes. | CO3 | 1 |
| 14. | Define safeners. | CO3 | 1 |
| 15. | What is allelopathy? | CO3 | 1 |
| 16. | Explain conoweeder. | CO3 | 1 |
| 17. | Define herbicides. | CO3 | 1 |
| 18. | Write parasitic weeds. | CO3 | 1 |
| 19. | What is weed shift? | CO3 | 1 |
| 20. | Write about glyphosate. | CO3 | 1 |

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| **PART B(10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Explain about water in soil - plant - atmosphere continuum. | CO 1 | 5 |
| 22. | Describe crop water requirement and irrigation requirement. | CO1 | 5 |
| 23. | Write water requirements of different fruit crops in Tamil Nadu. | CO1 | 5 |
| 24. | Narrate different water use efficiency indices. | CO1 | 5 |
| 25. | Explain measurements of irrigation water by using water measuring devices. | CO1 | 5 |
| 26. | Discuss quality of irrigation water and use of poor quality water in horticulture. | CO1 | 5 |
| 27. | Explain characteristics of weeds, beneficial and harmful effects of weeds. | CO3 | 5 |
| 28. | Describe herbicide residue in soil and its management. | CO3 | 5 |
| 29. | Write propagation and dissemination of weed seeds in agroecosystem. | CO3 | 5 |
| 30. | Narrate weed competition on crop growth and yield. | CO3 | 5 |
| 31. | Discuss biological control of weeds and bioherbicides. | CO3 | 5 |
| 32. | Explain the concept of IWM in detail. | CO3 | 5 |

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| **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Explain methods of irrigation, suitability, advantages and limitations. Name the best method for coconut. | CO2 | 8 |
| b. | Describe water movement in soil in detail. | CO1 | 7 |
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| 34. | a. | What is irrigation scheduling? Explain different approaches of irrigation scheduling. | CO1 | 8 |
| b. | Write IWM of different vegetable crops in Tamil Nadu. | CO3 | 7 |
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| 35. | a. | Discuss herbicide classification, formulations and methods of application. | CO3 | 8 |
| b. | Narrate selectivity and mode of action of herbicides. | CO3 | 7 |