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

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

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| **Code :** | **18HO2014** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DRY LAND HORTICULTURE** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course Outcome** | **Marks** |
| **PART – A (20X1 = 20 MARKS)** | | | | |
| 1. | | Define rainfed horticulture. | CO1 | 1 |
| 2. | | Give few examples of arid fruit crops with their botanical name. | CO1 | 1 |
| 3. | | Write down the scope of arid zone horticultural crops. | CO1 | 1 |
| 4. | | What are the characterstic features of dryland area? | CO1 | 1 |
| 5. | | Define *in-situ* grafting. | CO1 | 1 |
| 6. | | List out the micro irrigation system and their advantages. | CO2 | 1 |
| 7. | | What is shelter belt ? Mention its uses in arid regions. | CO2 | 1 |
| 8. | | How growth retardant helps the plant in arid region? Give example. | CO2 | 1 |
| 9. | | List out the promising varieties of guava suitable for arid regions. | CO2 | 1 |
| 10. | | What is called pitcher irrigation? | CO2 | 1 |
| 11. | | List out the chemicals that are used as antitranspirants. | CO3 | 1 |
| 12. | | What is mixed farming? Give example. | CO3 | 1 |
| 13. | | What is compartment farming? Give example. | CO3 | 1 |
| 14. | | What is *in-situ* microcatchment system? | CO3 | 1 |
| 15. | | What is synthetic mulch? Give examples. | CO3 | 1 |
| 16. | | What is multi storeyed cropping system? | CO4 | 1 |
| 17. | | Write down the advantages of protected cultivation in arid climatic condition. | CO4 | 1 |
| 18. | | What is horti-silviculture? | CO4 | 1 |
| 19. | | Central Institute for arid land horticulture is located in \_\_\_\_\_\_\_\_\_\_. | CO4 | 1 |
| 20. | | Botanical name of Lasora is \_\_\_\_\_\_\_\_\_\_ and Manila tamarind is \_\_\_\_\_\_\_\_\_\_. | CO4 | 1 |

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|  | **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | |
| 21. | Discuss the commercial importance of arid horticulture crops. | CO1 | 5 |
| 22. | Summarize the rain water harvesting and water recycling techniques. | CO1 | 5 |
| 23. | Enumerate the role of germplasm in dryland horticulture. | CO1 | 5 |
| 24. | Justify: canapy management helps the plant to survive better in arid regions. | CO2 | 5 |
| 25. | Tabulate suitable propagation methods of different arid fuit crops. | CO2 | 5 |
| 26. | Examine the prospects of dryland horticulture. | CO2 | 5 |
| 27. | Enumerate the different types of mulches and their advantages. | CO3 | 5 |
| 28. | Analyse the constraints of dryland horticulture. | CO3 | 5 |
| 29. | What are the breeding objectives of fruit crops under dryland condition? | CO3 | 5 |
| 30. | Explain technological, socio-economic constraints of dryland. | CO4 | 5 |
| 31. | Describe biological and mechanical methods of soil conservation. | CO4 | 5 |
| 32. | Explain the water management techniques for Ber. | CO4 | 5 |

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|  | **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | |
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| 33. | a. | Give an account of distribution of arid and semiarid /dry land regions or zones in India. | CO1 | 8 |
| b. | Describe the planting techniques in dry land orchards. | CO3 | 7 |
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| 34. | a. | Give an account on types and design of farm ponds. | CO2 | 8 |
| b. | Discuss the types and design of bench terraces for soil erosion control. | CO3 | 7 |
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| 35. | a. | Discuss the different fruit crops based farming system in arid regions. | CO4 | 8 |
| b. | Analyze the characterstics and special adaptation of different types of arid fruit crops. | CO4 | 7 |