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

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

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| **Code :** | **17AG1010** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PRINCIPLES OF HORTICULTURAL SCIENCES** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define horticulture. | CO1 | 1 |
| 2. | Find an example for medicinal and aromatic plants. | CO1 | 1 |
| 3. | Define photoperiodism. | CO2 | 1 |
| 4. | Find examples for short day plants. | CO2 | 1 |
| 5. | Find an example for non- climacteric crops. | CO2 | 1 |
| 6. | Modified leader is the combination of \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 7. | Name any two live fences. | CO1 | 1 |
| 8. | Suggest a planting system for hilly areas. | CO1 | 1 |
| 9. | Hydroponics is otherwise called as \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 10. | Name any two green leaf manures. | CO1 | 1 |
| 11. | Identify the other name for sprinkler irrigation. | CO3 | 1 |
| 12. | Define mulching. | CO3 | 1 |
| 13. | Name any two growth inhibitors. | CO2 | 1 |
| 14. | State the bearing habit of jack and cocoa. | CO2 | 1 |
| 15. | Discuss apomixes. | CO2 | 1 |
| 16. | Give an example for herbaceous cuttings. | CO2 | 1 |
| 17. | Define intercropping. | CO3 | 1 |
| 18. | Identify the crop that can be propagated through suckers. | CO3 | 1 |
| 19. | Define stimulative parthenocarpy. | CO2 | 1 |
| 20. | Define chimeras. | CO2 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Discuss the scope and importance of horticulture. | CO1 | 5 |
| 22. | Analyze the factors affecting growth and development. | CO1 | 5 |
| 23. | Explain HDP in detail. | CO2 | 5 |
| 24. | Explain the alternate row of planting sytem. | CO1 | 5 |
| 25. | Analyze the different systems of irrigation. | CO3 | 5 |
| 26. | Illustrate the stages of growth in sequence. | CO1 | 5 |
| 27. | Demonstrate the special pruning techniques (any two). | CO2 | 5 |
| 28. | List the advantages and disadvantages of drip irrigation. | CO3 | 5 |
| 29. | Explain heterostyly. | CO2 | 5 |
| 30. | Explain parthenocarpy. | CO2 | 5 |
| 31. | Elaborate the methods of ground layering in detail. | CO3 | 5 |
| 32. | Summarize the advantages and disadvantages of sexual/ seed propagation. | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Discuss the planning and establishment of an orchard layout. | CO1 | 7 |
| b. | Summarize the different methods of cuttings. | CO3 | 8 |
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| 34. | a. | Categorize the layering techniques in detail. | CO3 | 7 |
| b. | Illustrate the bearing habit in detail with example. | CO3 | 8 |
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| 35. | a. | Infer the causes for fruit drop with its prevention methods. | CO2 | 7 |
| b. | Analyze the external factors responsible for unfruitfulness. | CO2 | 8 |