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

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

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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 (20X1=20 MARKS)** | | | |
| 1. | India ranks \_\_\_\_\_\_\_\_\_\_ in fruit production in the world. | CO1 | 1 |
| 2. | The Vitamin C is rich in \_\_\_\_\_\_\_\_\_\_ fruit. | CO1 | 1 |
| 3. | Name the example for short day plant. | CO1 | 1 |
| 4. | Example for temperate fruit crop. | CO1 | 1 |
| 5. | In Hexagonal planting system \_\_\_\_\_\_\_\_\_\_ % more plants can accommodate than square planting system. | CO3 | 1 |
| 6. | \_\_\_\_\_\_\_\_\_\_ is used for induction of rooting in cutting. | CO2 | 1 |
| 7. | Example for natural plant growth regulator. | CO2 | 1 |
| 8. | Expand HDP. | CO3 | 1 |
| 9. | Name the suitable season for transplanting of deciduous fruit crops. | CO3 | 1 |
| 10. | Growth refers to \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 11. | What is Nursery? | CO2 | 1 |
| 12. | Olericulture refers to \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 13. | What is micropropagation? | CO2 | 1 |
| 14. | Disbudding refers to \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 15. | What is seed? | CO2 | 1 |
| 16. | What is parthenocarpy? | CO3 | 1 |
| 17. | Self fertile refers to \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 18. | Non-Recurrent apomixis present in \_\_\_\_\_\_\_\_\_\_ fruit crops. | CO2 | 1 |
| 19. | Leaf bud cuttings is followed in \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 20. | Shade net house is used for \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |

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| **PART B (10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Outline the divisions of horticulture. | CO1 | 5 |
| 22. | Illustrate the growth phases of horticultural crops. | CO2 | 5 |
| 23. | List out the factors responsible for unfruitfulness. | CO3 | 5 |
| 24. | How can you select the location and site for establishment of nursery? | CO2 | 5 |
| 25. | List out the advantages & disadvantages of micropropagation. | CO2 | 5 |
| 26. | Explain: Air layering with example. | CO3 | 5 |
| 27. | List out the different types of training methods. | CO2 | 5 |
| 28. | Explain about the contour type of planting system. | CO3 | 5 |
| 29. | List out the kinds of flower bearing shoots. | CO3 | 5 |
| 30. | Discuss about the seasons of pruning and heading back and thinning out techniques. | CO2 | 5 |
| 31. | Discuss about how genetic influence factors affect fruitfulness. | CO2 | 5 |
| 32. | Define infertility in horticultural crops. | CO2 | 5 |

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| **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Explain the planting system followed in orchard management. | CO3 | 8 |
| b. | Explain the pruning techniques followed in orchard. | CO3 | 7 |
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| 34. | a. | Explain the different types of budding techniques in plant propagation. | CO2 | 8 |
| b. | Explain the high density planting system. | CO3 | 7 |
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| 35. | a. | Discuss about the causes for fruit drop. | CO3 | 8 |
| b. | Explain: Vegetative propagation method - Grafting techniques. | CO3 | 7 |