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

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

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| **Code :** | **17HO1002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROPAGATION OF HORTICULTURAL CROPS** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART-A (20X1=20 MARKS)** | | | |
| 1. | What is sexual propagation? | CO2 | 1 |
| 2. | \_\_\_\_\_\_\_\_\_\_\_ structure is used for plant propagation. | CO3 | 1 |
| 3. | Define: Seed? | CO2 | 1 |
| 4. | What is Plant growth regulator? | CO3 | 1 |
| 5. | Polyembryony is present in \_\_\_\_\_\_\_\_\_\_\_ fruit crop. | CO2 | 1 |
| 6. | Seeds in which the endosperm present as thin layer is called as \_\_\_\_\_\_\_\_\_\_\_ seed. | CO2 | 1 |
| 7. | Name the mango rootstocks used for dwarfing. | CO2 | 1 |
| 8. | Air layering is otherwise called as \_\_\_\_\_\_\_\_\_\_\_ in China. | CO2 | 1 |
| 9. | Budding is refers to \_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 10. | What is budwood? | CO2 | 1 |
| 11. | What is Seed longevity? | CO2 | 1 |
| 12. | Mention the micropropagation method followed for eradication of viruses. | CO2 | 1 |
| 13. | \_\_\_\_\_\_\_\_\_\_\_ cuttings is followed in Coleus and Chrysanthemum. | CO2 | 1 |
| 14. | \_\_\_\_\_\_\_\_\_\_\_ at \_\_\_\_\_\_\_\_\_\_\_ ppm is used for induction of rooting in cuttings. | CO2 | 1 |
| 15. | Non-recurrent apomixis is found in \_\_\_\_\_\_\_\_\_\_\_ crops. | CO2 | 1 |
| 16. | \_\_\_\_\_\_\_\_\_\_\_ method of propagation is followed in mango | CO2 | 1 |
| 17. | \_\_\_\_\_\_\_\_\_\_\_ is used for surface sterilization of explants. | CO2 | 1 |
| 18. | Name the apple rootstocks resistant to wooly aphids. | CO2 | 1 |
| 19. | What is Micropropagation? | CO2 | 1 |
| 20. | Mention the suitable season for cuttings. | CO2 | 1 |

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| **PART B (10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Explain: Nursery certification. | CO1 | 5 |
| 22. | List out the merits and demerits of sexual propagation? | CO2 | 5 |
| 23. | Illustrate the mound layering with example. | CO2 | 5 |
| 24. | Discuss the factors influencing rooting in cuttings. | CO2 | 5 |
| 25. | Explain: Microsporogenesis with neat diagram. | CO2 | 5 |
| 26. | Explain the seed treatment methods in horticultural crops? | CO2 | 5 |
| 27. | Illustrate the grafting techniques. | CO2 | 5 |
| 28. | Discuss the applications of plant growth regulators in plant propagation. | CO3 | 5 |
| 29. | Explain the chimeras and their types in an asexually propagated seedlings. | CO2 | 5 |
| 30. | Compose the requirements for micropropagation. | CO2 | 5 |
| 31. | Show the ‘T’ budding techniques in rose. | CO2 | 5 |
| 32. | List out the applications of micropropagation. | CO2 | 5 |

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| **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Discuss apomixis in horticultural crops. | CO2 | 5 |
| b. | Explain: Budding Techniques and their types with examples. | CO2 | 10 |
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| 34. | a. | Explain: Physiological and anatomical basis of graft union. | CO2 | 5 |
| b. | Elaborate the propagation through specialized plant parts. | CO2 | 10 |
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| 35. | a. | Explain the sterilization techniques in micropropagation. | CO2 | 5 |
| b. | Explain the protocol for micropropagation and their stages. | CO2 | 10 |