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



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

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| **Code :** | **18HO1003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROPAGATION AND NURSERY MANAGEMENT**  **FOR HORTICULTURAL CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define Nursery. | CO1 | 1 |
| 2. | \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ are examples for tip layering. | CO2 | 1 |
| 3. | Give an example for recurrent apomixes \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 4. | The tool used for slashing of weeds is \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 5. | Nursery regulation act was regulated in the year \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 6. | Define Polyembryony. | CO2 | 1 |
| 7. | Delayed incompatability is observed in \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 8. | Define Offsets. | CO2 | 1 |
| 9. | Runners are used for propagation in \_\_\_\_\_\_\_\_\_\_ crop. | CO2 | 1 |
| 10. | \_\_\_\_\_\_\_\_\_\_ is the method for commercial method of propagation in rose. | CO2 | 1 |
| 11. | Growth regulator used in rooting is \_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 12. | List any two propagating structures. | CO3 | 1 |
| 13. | Define Apomixes. | CO2 | 1 |
| 14. | Define Somaclonal Variation. | CO2 | 1 |
| 15. | Explain the Hardening of plants. | CO3 | 1 |
| 16. | \_\_\_\_\_\_\_\_\_\_ is the chemical used to break dormancy in seed . | CO2 | 1 |
| 17. | Define Stratification . | CO2 | 1 |
| 18. | Give an example for leaf bud cutting \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 19. | Define Budsport. | CO2 | 1 |
| 20. | \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ are examples for tunicate bulbs. | CO2 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Explain the need and potentialities for plant multiplication. | CO1 | 5 |
| 22. | Elaborate the pest and disease management in nursery. | CO1 | 5 |
| 23. | Discuss the use of growth regulators in seed dormancy. | CO2 | 5 |
| 24. | Explain epicotyl grafting in detail. | CO2 | 5 |
| 25. | Define chimeras with its types. | CO2 | 5 |
| 26. | Explain the different types of seed germination. | CO2 | 5 |
| 27. | Define graft incompatability. | CO2 | 5 |
| 28. | Explain layering techniques in detail.. | CO2 | 5 |
| 29. | What are the factors responsible for rooting of cuttings. | CO2 | 5 |
| 30. | Define budwood certification . | CO3 | 5 |
| 31. | Explain stock -scion relationship and their influence . | CO2 | 5 |
| 32. | Discuss about nursery registration act . | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Discuss: Advantages and disadvantages of vegetative propagation. | CO1 | 8 |
| b. | Explain cutting techniques in detail. | CO2 | 7 |
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| 34. | a. | Explain the factors responsible for seed dormancy. | CO2 | 8 |
| b. | Explain vegetative propagation and its methods. | CO1 | 7 |
|  |  |  |  |  |
| 35. | a. | Explain the plant propagating structures with diagram. | CO3 | 8 |
| b. | Explain the measures to overcome seed dormancy. | CO2 | 7 |