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

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

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| **Code :** | **18HO1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF HORTICULTURE** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| **I** | **Fill in the blanks:** |  |  |
| 1. | \_\_\_\_\_\_\_\_\_\_ system of planting is used in hills. | CO1 | 1 |
| 2. | Bower system is otherwise called as \_\_\_\_\_\_\_\_\_\_ System. | CO1 | 1 |
| 3. | \_\_\_\_\_\_\_\_\_\_ PGR is used to hasten or delay fruit ripening. | CO2 | 1 |
| 4. | \_\_\_\_\_\_\_\_\_\_ plants is an example of semi hard wood cuttings. | CO3 | 1 |
| 5. | \_\_\_\_\_\_\_\_\_\_ grafting is used for renovation and rejuvenation of plants. | CO2 | 1 |
| **II** | **Choose the correct answer:** |  |  |
| 6. | \_\_\_\_\_\_\_\_\_\_ is used as the live fence.  (a) Prosopsis juliforia (b) Mangifera indica  (c) Casuarina equisetifolia (d) Polythia longifolia | CO1 | 1 |
| 7. | Smuding is the practice of smoking mainly done in \_\_\_\_\_\_\_\_\_\_.  (a) Mango (b) citrus (c) Banana (d) all of these | CO2 | 1 |
| 8. | In grafting, lower portion of plant is termed \_\_\_\_\_\_\_\_\_\_.  (a) scion (b) rootstock (c) bud (d) rootstock and bud | CO3 | 1 |
| 9. | \_\_\_\_\_\_\_\_\_\_ is the practice of complete removal of trunk in trees.  (a) Bending (b) Coppicing (c) Pollarding (d) Lopping | CO1 | 1 |
| 10. | This drops occurs when the fruits are \_\_\_\_\_\_\_\_\_\_ due to formation of abscission layer in the Young fruit stalks.  (a) Marble size (b) Pea size (c) pre harvest drop (d) all of these | CO2 | 1 |
| **III** | **Say true or false:** |  |  |
| 11. | Double hedge planting system accomodates 40% of higher population. | CO1 | 1 |
| 12. | Head system is usually followed in grapes. | CO1 | 1 |
| 13. | Onion is an example for corm. | CO3 | 1 |
| 14. | Intermediate between the open and centre leader system is called Modified leader system. | CO1 | 1 |
| 15. | Air layering is also known as gootoe or Morcottage. | CO2 | 1 |
| **IV** | **Match the following:** |  |  |
| 16. | Fruits --- Soilless culture | CO1 | 1 |
| 17. | Vegetables --- Pomology | CO1 | 1 |
| 18. | Hydroponics --- Perlite | CO2 | 1 |
| 19. | Media --- Thiram | CO1 | 1 |
| 20. | Seed treatment --- Olericulture | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Differenitate between Open center system and Central Leader system. | CO1 | 5 |
| 22. | Write short notes on mixed cropping. | CO1 | 5 |
| 23. | Write in detail the unfruitfulness associated with external factors. | CO2 | 5 |
| 24. | Explain the causes of fruit drop. | CO3 | 5 |
| 25. | Write down the advantages and disadvantages of asexual Propagation. | CO3 | 5 |
| 26. | Expain the Inarching or approach grafting with diagrams. | CO2 | 5 |
| 27. | Define apomixes. What are the different types of apomixes? | CO2 | 5 |
| 28. | List out the advantages of micropropagation. | CO3 | 5 |
| 29. | What are the different kinds of media for nursery plants? | CO2 | 5 |
| 30. | Discuss the different types of seed dormancy. | CO3 | 5 |
| 31. | Write a note on graft incompatibility. | CO2 | 5 |
| 32. | Discuss on High Density Planting in mango. | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Write in detail the scope and importance of Horticulture. | CO1 | 15 |
| b. | Explain the special pruning techniques followed in Horticultural crops. | CO2 |
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| 34. | a. | Write in detail the role of PGR in horticultural crops. | CO3 | 15 |
| b. | Explain briefly the different techniques of layering. | CO2 |
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| 35. | a. | Write down the different planting techniques followed in horticultural crops for orchard establishment. | CO1 | 15 |
| b. | Write in detail the plant propagating structures. | CO3 |