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

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

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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(20X1=20 MARKS)** | | |
|  | **Choose the correct answer** |  |  |
| 1. | Club root disease of cole crops more prevalently tolerant more in\_\_\_\_\_\_\_\_\_\_\_\_\_.  a) Acids soils b) Alkaline soils c) Loamy soils d) Clay soils | CO1 | 1 |
| 2. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an example for climatric fruit  a) Banana b) Fig c) Grapes d) Lemon | CO1 | 1 |
| 3. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Apple cultivars are bud sport of original Delicious apple cultivar.  a) Delicious b) Red Gold c) Red delicious d) Richa Red | CO3 | 1 |
| 4. | Trees suitable for wind breaks are  a) Mango b) Agave c) Casuarina d) Amala | CO1 | 1 |
| 5. | \_\_\_\_\_\_\_\_\_\_\_\_\_graftings are used for supporting branches that may be in danger of breaking off or weak crotch  a) Stone grafting b) Butress grafting c) Cleft grafting d) Whip grafting | CO1 | 1 |
|  | **Fill in the blanks** |  |  |
| 6. | Short day conditions favour the production \_\_\_\_\_\_\_\_\_\_\_\_\_\_flowers. | CO1 | 1 |
| 7. | Seeds which lose viability when dried to below the moisture content are called \_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 8. | Effective Blossom thinning in grapes is done by \_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 9. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an example for monoecious form. | CO2 | 1 |
| 10. | Apomatic seedling are free from\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
|  | **True or false** |  |  |
| 11. | Plants that are resistant to cold injury are called hardy plants | CO1 | 1 |
| 12. | *Prosposisjulifora* is an example for live fence | CO1 | 1 |
| 13. | *Sansivieria* is propagated by leaf bud cutting | CO3 | 1 |
| 14. | Plum is an example for tip layering | CO3 | 1 |
| 15. | The study of fruits is called Olericulture | CO1 | 1 |
|  | **Match the following** |  |  |
| 16. | Pear Cardamon | CO1 | 1 |
| 17. | Semi hard wood cutting Quice –A | CO3 | 1 |
| 18. | Soft wood cutting Daincha | CO3 | 1 |
| 19. | Green Manure Jasmine | CO2 | 1 |
| 20. | Rhizome Duranta | CO3 | 1 |

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| **PART B(10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Write a note on Hydroponics ? | CO1 | 5 |
| 22. | Differentiate between open center and central leader system? | CO1 | 5 |
| 23. | Discuss about the different methods of thinning? | CO1 | 5 |
| 24. | Write the different techniques of seed propagation? | CO2 | 5 |
| 25. | Explain the different climatic factors influencing the horticultural crops? | CO1 | 5 |
| 26. | Write the advantages and disadvantages of sexual propagation? | CO2 | 5 |
| 27. | Explain the reasons for grafting and buddings in horticultural crops? | CO2 | 5 |
| 28. | Discuss the characteristics of HDP? | CO1 | 5 |
| 29. | Write a note on Epicotyl grafting? | CO2 | 5 |
| 30. | Discuss about the cause of graft incompatibility? | CO3 | 5 |
| 31. | Write a note on Air layering? | CO3 | 5 |
| 32. | Explain about simple and compound layering? | CO3 | 5 |

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| **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Explain the different methods of soil management practices? | CO1 | 8 |
| b. | What are the different special pruning techniques? | CO2 | 7 |
|  |  |  |  |  |
| 34. | a. | Discuss the different system of laying out of an orchard? | CO1 | 7 |
| b. | Explain about the stock-scion relationships? | CO3 | 8 |
|  |  |  |  |  |
| 35. | a. | Explain the different methods of budding? | CO3 | 8 |
| b. | Explain the importance of PGR in Horticultural crops? | CO2 | 7 |