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



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

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| **Code :** | **17HO1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BOTANY OF HORTICULTURAL CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | | |
| 1. | | Binomial system of nomenclature of Linnaeus was published as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 2. | | Flowers in which both male and female organs are found are known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 3. | | An example for tropical nut crop is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 4. | | “Needles” like leaves are found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 5. | | \_\_\_\_\_\_\_\_\_\_\_\_\_ is the the hypothesized hormone-like molecule responsible for controlling and/or triggering flowering in plants stimulated by proper photoperiod. | CO2 | 1 |
| 6. | | The maturation of anthers and stigma of the same flowers at different times is called \_\_\_\_\_\_. | CO2 | 1 |
| 7. | | The fruit of mango is called \_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 8. | | \_\_\_\_\_\_\_\_\_\_\_\_is a species of plant that has adaptations to survive in an environment with little liquid water, such as a desert or an ice- or snow-covered region in the Alps or the Arctic. | CO1 | 1 |
| 9. | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the closest form of inbreeding. | CO3 | 1 |
| 10. | | An example for male and female flowers being present in separate inflorescence is \_\_\_\_\_\_\_. | CO2 | 1 |
| 11. | | The inability of fertile pollens to fertilize the same flower is due to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 12. | | A plant that can grow in three sexes: male, female, and hermaphrodite is \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 13. | | The scientific name of rubber is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 14. | | The isolation distance for the hybrid seed production of chillies is \_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 15. | | The number of stamens in Fabaceae family are \_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 16. | | The botanical name of jathi malli is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 17. | | \_\_\_\_\_\_\_\_\_\_\_ male sterility is more preferred to full double flowers in French marigold. | CO3 | 1 |
| 18. | | The mode of pollination in tomato is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 19. | | Crosses between diploid and tetraploid roses result primarly in \_\_\_\_\_\_\_\_\_\_ progeny. | CO3 | 1 |
| 20. | | The chief pollinator of guava is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Classify the different mechanisms that encourage cross pollination. | CO1 | 5 |
| 22. | Discover the pollination and fruit set in mango. | CO2 | 5 |
| 23. | Examine the flowering mechanism in horticultural crops. | CO2 | 5 |
| 24. | Analyze the constraints of hybridization techniques in jasmine. | CO3 | 5 |
| 25. | Explain the types of vegetative reproduction seen in horticultural crops. | CO1 | 5 |
| 26. | Examine the floral biology of banana. | CO2 | 5 |
| 27. | Compare the bud and flower development in moringa. | CO2 | 5 |
| 28. | Explain the steps involved in pollination, fertilization and germination of rose hybridization. | CO3 | 5 |
| 29. | Examine the development of fruit in tomato with suitable illustrations. | CO2 | 5 |
| 30. | Distinguish the different species of marigold. | CO1 | 5 |
| 31. | Analyze the types of pollination evident in okra. | CO2 | 5 |
| 32. | Explain the fruit set of guava. | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Examine the floral biology of any five major crops that you have studied. | CO2 | 10 |
| b. | Explain the types of flowers in horticultural crops. | CO1 | 5 |
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| 34. | a. | Dissect the classification of horticultural crops with suitable examples. | CO1 | 8 |
| b. | Categorize the morphology of horticultural crops with suitable examples. | CO1 | 7 |
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| 35. | a. | Distinguish the economic part of any five major crops that you have studied. | CO2 | 8 |
| b. | Simplify the floral biology, pollination, fruit set and economic part in Rutaceae  family. | CO2 | 7 |