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

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

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| **Code :** | **18HO2004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DISEASES OF FRUIT, PLANTATION, MEDICINAL AND AROMATIC CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Qestions** | **Course Outcome** | **Marks** |
| **PART - A (20 X 1 = 20 MARKS)** | | | |
|  | **Fill in the blanks:** | | |
| 1. | Pathogen which produces shot-hole symptom on mango leaves is \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 2. | Longitudinal splitting of pseudostem is a characteristic symptom of \_\_\_\_\_\_\_\_\_ disease in banana. | CO2 | 1 |
| 3. | Mummified berries is a characteristic symptom of \_\_\_\_\_\_\_\_\_\_ disease in grapevine. | CO2 | 1 |
| 4. | Grapevine Fan leaf Virus is transmitted by \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 5. | Fire blight of apple is caused by \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 6. | Peach leaf curl is caused by \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 7. | The insect vector of Citrus Tristeza Virus is \_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 8. | The algal pathogen infecting guava is \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 9. | Bacterium responsible for fruit cracking in pomegranate is \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 10. | Shoe-string and deep lobes in papaya fruits are the symptoms produced by \_\_\_\_\_\_\_\_\_\_ . | CO1 | 1 |
| 11. | \_\_\_\_\_\_\_\_\_\_\_is a resistant variety to *Fusarium* wilt of banana. | CO3 | 1 |
| 12. | \_\_\_\_\_\_\_\_\_\_\_\_\_survives (in soil) as chlamydospores in banana plant debris. | CO2 | 1 |
| 13. | Spraying of Metalaxyl can be recommended to manage \_\_\_\_\_\_\_\_\_\_\_\_ disease in grapevine. | CO3 | 1 |
| 14. | Wettable sulphur is very effective in controlling \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ disease. | CO3 | 1 |
| 15. | Spraying of \_\_\_\_\_\_\_\_\_\_\_\_\_ is useful for managing bacterial canker in citrus. | CO3 | 1 |
| 16. | Hen and chicken disorder (presence of small sized fruits and large sized fruits in the same bunch) in grapes can be corrected with the spaying of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 17. | Tools should be disinfected with mercuric chloride after each cut and spraying of Bordeaux mixture or Streptomycin 500-1000 ppm is recommended to manage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ disease in apple. | CO3 | 1 |
| 18. | Peach yellow is transmitted by the leaf hopper\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 19. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the sexual spore produced by *Pythium* spp. | CO2 | 1 |
| 20. | Dip the pineapple setts in captafol 0.2% or copper oxy chloride 0.25% solution to control \_\_\_\_\_\_\_\_\_\_\_\_\_ disease. | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)**  **(Draw diagrams wherever necessary)** | | | |
| 21. | Write short notes on Pairing and prolinage and Corm injection. | CO3 | 5 |
| 22. | Elaborate on Blister blight of tea. | CO3 | 5 |
| 23. | Write notes on Damping off. | CO1,2,3 | 5 |
| 24. | Describe the Papaya viruses. | CO1,3 | 5 |
| 25. | Elaborate on Basal stem rot of coconut. | CO1,3 | 5 |
| 26. | Write short notes on Anthracnose of mango. | CO1,3 | 5 |
| 27. | Briefly explain Phenarogamic parasites. | CO1,3 | 5 |
| 28. | Write notes on Abnormal leaf fall of rubber. | CO1,3 | 5 |
| 29. | Write down the important diseases of *Aloe vera.* | CO1,3 | 5 |
| 30. | Elucidate on the Koleroga disease of arecanut. | CO1,3 | 5 |
| 31. | Elaborate on Panama wilt of banana. | CO1,3 | 5 |
| 32. | Write short notes on Downy mildew of grapes. | CO1,3 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)**  **Write detailed answer (Draw diagrams wherever necessary)** | | | | |
| 33. | a. | List out the important diseases of banana and write in detail the *Fusarium* wilt. | CO1,2,3 | 15 |
| b. | List out the important diseases of coconut and write in detail the Kerala wilt. | CO1,2,3 |
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| 34. | a. | List out the important diseases of grapes and write in detail the powdery mildew. | CO1,2,3 | 15 |
| b. | List out the important diseases of citrus and discuss on bacterial canker. | CO1,2,3 |
|  |  |  |  |  |
| 35. | a. | List out the important diseases of apple and discuss on fire blight. | CO1,2,3 | 15 |
| b. | List out the important diseases of rubber and discuss on powdery mildew. | CO1,2,3 |