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

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**End Semester Examination – Apr/May – 2018**

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| **Code :** | **17AG1010** | **Duration :** | **3hrs** |
| **Sub. Name :** | PRINCIPLES OF HORTICULTURAL SCIENCES | **Max. marks :** | **100** |

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| **Q.**  **No.** | **Questions** | **Course Outcome** | **Marks** |
|  | **PART-A(20X1=20 MARKS)** | | |
|  | **Choose the following** | | |
| 1. | Plant propagation refers to   1. Multiplication B. Perpetuation   C. Both A and B D None of these | CO2 | 1 |
| 2. | A typical example for a plant which is propagated through leaf and leaf bud cutting method is  A. Crotons B. Rose  C. Jack D. Bryophyllum | CO2 | 1 |
| 3. | An example for short day plant is  A. Tea B Coffee  C.Rubber D Bryophyllum | CO1 | 1 |
| 4. | Dwarfing rootstocks in apple is  A MM 106 B.Adam  C Pale D. All of these | CO1 | 1 |
| 5. | PGR employed to hasten or delay fruit ripening   1. 2,4,5-T B. NAA   C .Ethrel D. 2,4-D | CO2 | 1 |
|  | **Fill in the blanks** |  |  |
| 6. | \_\_\_\_\_\_\_\_\_ system accommodates 15% more trees in a orchard | CO1 | 1 |
| 7. | \_\_\_\_\_\_\_\_\_ is an example for green manure crop | CO1 | 1 |
| 8. | The practice of removing the growing point in shade trees are called \_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 9. | \_\_\_\_\_\_\_\_\_ refers to the ability of the plant not only to set and mature fruits but to develop viable seeds. | CO2 | 1 |
| 10. | Air layering is also known as \_\_\_\_\_\_\_\_\_. | CO2 | 1 |
|  | **True or False** |  |  |
| 11. | Nut meg is an example for dioecous trees. | CO1 | 1 |
| 12. | Orthodex seeds can be dried to a low moisture content and the storability can be increased. | CO2 | 1 |
| 13. | Side grafting is used for rejuvenation of trees. | CO2 | 1 |
| 14. | Ringing is the practices to increase fruit bud formation. | CO1 | 1 |
| 15. | Apomictic seedling are free from virus disease. | CO2 | 1 |
|  | **Match the following** |  |  |
| 16. | Monoecious Casuarina. | CO1 | 1 |
| 17. | Pomology Melons | CO1 | 1 |
| 18. | Wind breaks Jasmine | CO1 | 1 |
| 19. | Simple layering Vegetables | CO2 | 1 |
| 20. | Orlericulture Fruits | CO1 | 1 |

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|  | **PART B(10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | |
| 21. | Discuss about Asexual propagation and its Disadvantages? | CO2 | 5 |
| 22. | What are the different Agro-Climatic zones for Horticultural crops? | CO1 | 5 |
| 23. | Discuss about High density planting system? | CO1 | 5 |
| 24. | Explain about the multitier system of cropping? | CO1 | 5 |
| 25. | Explain about the unfruitfulness associated with external factors? | CO2 | 5 |
| 26. | What are the different types of dormancy? | CO2 | 5 |
| 27. | Discuss about the side grafting and whip grafting? | CO2 | 5 |
| 28. | What are the factors influencing the heeling of graft union? | CO2 | 5 |
| 29. | Discuss the different techniques of layering? | CO2 | 5 |
| 30. | Explain about the seedling root stock and clonal root stock? | CO2 | 5 |
| 31. | Explain about the different heating system in hot bed? | CO1 | 5 |
| 32. | What are the four different types of apomixes? | CO2 | 5 |

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|  | **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | |
| 33. | a. | Write in detail about the scope and importance of Horticulture in India? | CO1 | 7 |
| b. | Explain the different system of layout of the orchard? | CO1 | 8 |
| 34. | a. | Explain about the different types of dormancy? | CO2 | 7 |
| b. | Discuss the different techniquesof seed propagation? | CO2 | 8 |
| 35. | a. | Explain about the techniques of propagation through specialized plant parts? | CO2 | 7 |
| b. | Write in detail about the role of plant growth regulators in horticultural crops? | CO2 | 8 |