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



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

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| **Code :** | **18AG1016** | | | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTRODUCTORY AGROFORESTRY** | | | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define Agroforestry. | CO1 | 1 |
| 2. | The lands with a forest cover with canopy density of 40-70 % is called as \_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 3. | Father of Indian Forest is \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 4. | The taungya system introduced to India from \_\_\_\_\_\_\_\_\_\_\_\_\_ in the year\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 5. | Define coppice. | CO3 | 1 |
| 6. | ICFRE is located in \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 7. | Write down the types of forests according to the NFP-1988. | CO1 | 1 |
| 8. | List out the Industries based on Agroforestry. | CO3 | 1 |
| 9. | Name the trees used as wind breaks. | CO2 | 1 |
| 10. | Define shelterbelts. | CO3 | 1 |
| 11. | Alley cropping is aslo called as \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 12. | Give the examples of MPTs. | CO2 | 1 |
| 13. | Name two protective functions of trees. | CO2 | 1 |
| 14. | Write down the role of trees in litter nutrient cycling. | CO3 | 1 |
| 15. | Name a tree species with crop plants used for plantation crop combination. | CO1 | 1 |
| 16. | What is carbon sequestration? | CO3 | 1 |
| 17. | What is component interaction? | CO1 | 1 |
| 18. | List the nutrient pools in the soil. | CO2 | 1 |
| 19. | Write down the main objectives of social forestry. | CO1 | 1 |
| 20. | List the types of social forestry. | CO1 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Classify the forest based on the objects of management. | CO1 | 5 |
| 22. | Objectives of silviculture. | CO1 | 5 |
| 23. | Elaborate the types of forest based on canopy cover. | CO2 | 5 |
| 24. | Categorize the different agroforestry systems based on the structure and function. | CO2 | 5 |
| 25. | Write down the Salient features of National forest policy 1894. | CO1 | 5 |
| 26. | Classify the agroforestry system on functional basis. | CO1 | 5 |
| 27. | Compare and contrast wind breakers with shelter belts with illustration. | CO3 | 5 |
| 28. | Taungya system – Elaborate its types with their advantages and disadvantages. | CO3 | 5 |
| 29. | Exlain in detail the component interactions – above and below ground interactions. | CO2 | 5 |
| 30. | Illustrate the Nitrogen cycle with its importance. | CO3 | 5 |
| 31. | Describe the climate change mitigation with a neat diagram. | CO2 | 5 |
| 32. | List out the different social forestry practices followed in agro ecosystems. | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Write down the attributes and the Potential of Agroforestry. | CO1 | 7 |
| b. | Elaborate the different farm practices for laying a tree nursery. | CO3 | 8 |
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| 34. | a. | Explain in detail the forest regeneration. | CO1 | 9 |
| b. | Discuss the following systems: Riparian buffer zone, shifting cultivation and alley cropping. | CO2 | 6 |
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| 35. | a. | Explain in detail the social forestry, its concept, importance and practices. | CO1 | 8 |
| b. | Discuss the carbon sequestration and the different sequestration process. | CO3 | 7 |