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

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

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| **Code :** | **18HO2018** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTRODUCTION TO MAJOR FIELD CROPS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART-A (20X1=20 MARKS)** | | | |
| 1. | Define Cropping System. | CO2 | 1 |
| 2. | Define intercropping. | CO2 | 1 |
| 3. | Which are the Rice seasons of Tamil Nadu. | CO2 | 1 |
| 4. | Differentiate: Rainfed rice Vs Semi dry rice. | CO2 | 1 |
| 5. | Define Weed management in dry seeded rainfed un-puddled lowland rice. | CO3 | 1 |
| 6. | Write the importance of pulses. | CO1 | 1 |
| 7. | Write note on Foliar nutrition for redgram. | CO3 | 1 |
| 8. | What is Redgram based multistoreyed cropping? | CO2 | 1 |
| 9. | What are the different crop growth phases of sugarcane? | CO2 | 1 |
| 10. | What is macro nutrient recommendation for sugarcane. | CO3 | 1 |
| 11. | Give the Soil and Climate requirement of redgram. | CO1 | 1 |
| 12. | Write note on main field preparation for groundnut. | CO2 | 1 |
| 13. | Write note on Combined nutrient spray for groundnut. | CO3 | 1 |
| 14. | **What is Sustainable Sugarcane Initiative (SSI)?** | CO2 | 1 |
| 15. | How to calculate the Rotational Intensity? | CO2 | 1 |
| 16. | How to calculate the Cropping intensity / Intensity of cropping (CI)? | CO2 | 1 |
| 17. | List any two Forage grasses with scientific name. | CO2 | 1 |
| 18. | Define Hay and silage. | CO2 | 1 |
| 19. | List two cereal fodder crop with variety. | CO2 | 1 |
| 20. | Differentiate between Green manure and Green leaf manure. | CO2 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Write the Principles, concepts and importance of cropping system. | CO1 | 5 |
| 22. | Write in detail the nutrient and weed management in rice. | CO3 | 5 |
| 23. | Explain the Aerobic Rice. | CO2 | 5 |
| 24. | Explain the transplanting techniques in Redgram. | CO2 | 5 |
| 25. | Write the by products obtained from sugarcane industry. | CO2 | 5 |
| 26. | Describe Ratoon management in sugarcane. | CO2 | 5 |
| 27. | Write notes on Seed treatment, seed hardening and methods of sowing in groundnut. | CO2 | 5 |
| 28. | Write the Principles of Crop Rotation and its Advantages. | CO2 | 5 |
| 29. | Describe Production technology of Cumbu Napier hybrid grass. | CO2 | 5 |
| 30. | Write the Ant nutritional factors or toxic constituents in forages. | CO2 | 5 |
| 31. | Write the classification of green manures. | CO2 | 5 |
| 32. | Write the Agronomy of Dhaincha (*Sesbania aculeata*) and Manila agathi (*Sesbania rostrata)* | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
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| 33. | a. | Write in detail the SRI method of rice cultivation. | CO2 | 7 |
| b. | Write in detail the Production technology for Lowland puddled wetseeded rice. | CO2 | 8 |
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| 34. | a. | Write in detail the Production technologies for red gram. | CO2 | 7 |
| b. | Write in detail the Production technologies for irrigated groundnut. | CO2 | 8 |
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| 35. | a. | What are all the special intercultural operations to be carried out in sugarcane cultivation? Explain. | CO2 | 7 |
| b. | What is green manure and green manuring? Elaborate the importance of green manure with special reference to soil fertility management. | CO2 | 8 |