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

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

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| **Code :** | **18AG1003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTRODUCTORY AGRICULTURAL METEOROLOGY AND CLIMATE CHANGE** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART - A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define Ozone layer. | CO1 | 1 |
| 2. | What is Lapse rate? | CO2 | 1 |
| 3. | Define Cardinal temperature. | CO2 | 1 |
| 4. | What is Adiabatic lapse rate? | CO2 | 1 |
| 5. | Define Cyclone. | CO4 | 1 |
| 6. | Differentiate between the latitude and longitude. | CO1 | 1 |
| 7. | What is a Solar constant? | CO2 | 1 |
| 8. | Define Albedo. | CO2 | 1 |
| 9. | Differentiate between evaporation and condensation. | CO4 | 1 |
| 10. | State Growing degree day. | CO2 | 1 |
| 11. | Expand GMT, IST and LMT. | CO2 | 1 |
| 12. | Define Photoperiodism with examples. | CO2 | 1 |
| 13. | What is climate change? | CO3 | 1 |
| 14. | Define Remote sensing. | CO4 | 1 |
| 15. | State Isobar and Isohyte. | CO3 | 1 |
| 16. | Define Meteorological drought. | CO3 | 1 |
| 17. | Differentiate between weather and climate. | CO1 | 1 |
| 18. | What is Relative Humidity? | CO1 | 1 |
| 19. | State NCMRWF and its function. | CO2 | 1 |
| 20. | What is Artificial rain making? | CO1 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Define Cloud and classify diffent types of clouds. | CO1 | 5 |
| 22. | Write down the scope of agricultural meteorology. | CO1 | 5 |
| 23. | Differentiate between El-Nina and La-Nina. | CO3 | 5 |
| 24. | Explain the wind systems of the world. | CO2 | 5 |
| 25. | Disuss the factors affecting evaporation and transpiration. | CO4 | 5 |
| 26. | Explain the radiation balance of earth. | CO2 | 5 |
| 27. | Write down the impacts of climate change in agriculture. | CO4 | 5 |
| 28. | Differentiate between climate change and variability. Mention its significance. | CO3 | 5 |
| 29. | Write short notes on Humidity and it types. | CO2 | 5 |
| 30. | Write notes on the types of weather forecasting. | CO2 | 5 |
| 31. | Explain the different pressure system of the world. | CO1 | 5 |
| 32. | Discuss on different forms of precipitation. | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Differentiate between sea breeze and lad breeze. | CO3 | 5 |
| b. | Briefly discuss the monsoon of India. | CO2 | 10 |
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| 34. | a. | Explain the different agro-climatic zones of India. | CO1 | 10 |
| b. | Write notes on agro-climatic zones of Tamil Nadu. | CO1 | 5 |
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| 35. | a. | Elaborately discuss the different layers of atmosphere. | CO1 | 10 |
| b. | Explain the transfer of heat. | CO3 | 5 |