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



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

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| **Code :** | **17AG1004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AGRICULTURAL METEOROLOGY** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
|  | **PART – A (20 X 1 = 20 MARKS)** | | |
| 1. | Define Agricultural meteorlogy. | CO1 | 1 |
| 2. | Colourless, odourless and tasteless physical mixture which surrounds the earth is called as\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 3. | \_\_\_\_\_\_\_\_\_\_ is the imaginary lines which joins the places having the same atmospheric pressure. | CO2 | 1 |
| 4. | Define Weather. | CO1 | 1 |
| 5. | Define Tropopause. | CO2 | 1 |
| 6. | Hotness and coldness of an object determined by the mobility of molecules is \_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 7. | Define solar constant. | CO3 | 1 |
| 8. | Role of ozone layer is \_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 9. | Study of clouds is called as \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 10. | Any permanent change in weather phenomina from the normal of a long day average is \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 11. | Define Temperature inversion. | CO2 | 1 |
| 12. | List the elements used for the warm cloud seeding. | CO2 | 1 |
| 13. | Define cardinal temperature. | CO3 | 1 |
| 14. | As per planning commission and agroclimatic variation, India is divided into \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 15. | Expand IMD and WMO. | CO1 | 1 |
| 16. | Give the different forms of precipitation. | CO2 | 1 |
| 17. | Discuss on Doldrums. | CO2 | 1 |
| 18. | The prediction of weather for the next few days to follow is known as \_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 19. | Give the types of weather forecasting. | CO3 | 1 |
| 20. | Temperature of the hilly region is lesser than the plains – Substantiate. | CO2 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Give the scope and utility of agricultural meteorology. | CO1 | 5 |
| 22. | List out the weather hazards and its significance in agriculture. | CO3 | 5 |
| 23. | Discuss the monsoon- mechanism and its importance in Indian agriculture. | CO2 | 5 |
| 24. | With illustrations, compare the mountain breeze with valley breeze. | CO2 | 5 |
| 25. | Discuss the effect of wind on plant growth and development. | CO1 | 5 |
| 26. | Write short notes on (a) Homosphere (b) Isotherm (c) Albedo (d) Cumulus  (e) NEM | CO2 | 5 |
| 27. | Evaluate the parameters affecting the weather and climate. | CO1 | 5 |
| 28. | Write down the classification of clouds. | CO2 | 5 |
| 29. | Compare (a) Cyclone and anticyclone (b) Heat injury and cold injury | CO2 | 5 |
| 30. | Elaborate the process of artificial rainmaking with the merits and demerits. | CO2 | 5 |
| 31. | Give the importance of weather forecasting. | CO3 | 5 |
| 32. | Write in detail the composition and importance of atmosphere. | CO1 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Stratification of atmosphere is based on stability and temperature – Discuss. | CO1 | 9 |
| b. | Discuss on Temperature inversion and its types. | CO2 | 6 |
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| 34. | a. | Discuss the pressure system and wind pattern of the earth with neat diagram. | CO2 | 8 |
| b. | Elaborate the characteristics of different wave lengths and their effect on crop production. | CO4 | 7 |
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| 35. | a. | Elucidate the types of weather forecasting and their uses in agriculture. | CO1 | 8 |
| b. | Explain the different types of drought and its impact on agriculture. | CO3 | 7 |