

School of Agriculture

Agriculture
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem IV - A1UA407B / AGRI2018

Introductory Agro-Meteorology and Climate Change

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. Define meteorology and agrometeorology. K1 CO1 (5)
2. Explain short wave and long wave radiation. K2 CO1 (5)
3. Compare climate and weather with example. K1 CO1 (5)
4. Plan climatic normal for rice crop. K3 CO2 (10)
5. Classify different spheres of the earth in detail. K2 CO1 (10)
6. How plants utilize solar radiation, explain. Also write importance of solar radiation for agriculture. K3 CO2 (10)
7. Write functions of the following instruments: K4 CO5 (10)
 - i. Hygrometer
 - ii. Thermometer
 - iii. Dry bulb thermometer
 - iv. Wet bulb thermometer
 - v. Rain Gauge
 - vi. USWB Open pan evaporimeter
 - vii. Anemometer
 - viii. Wind Vane
 - ix. Pyranometer
 - x. Campbell stock bright sunshine recorder

OR

- Classify droughts and give information about them. Additionally, provide managerial strategies for the same. K4 CO5 (10)
8. Give classification of monsoon, also mention the complete mechanism of both monsoon theories. K4 CO3 (15)
 9. Explain weather forecasting and its types in detail. K5 CO4 (15)

OR

- Prove that weather prediction can be a beneficial practice in sustainable agriculture. K5 CO4 (15)
10. Prepare model of a standard agrometeorology observatory. K3 CO2 (15)