

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: I (New)	Term	: First	Academic Year	: 2022-23
Course No.	: H/AGROMET 111	Title	: Agro-meteorology and Climate Change		
Credits	: 2 (1+1)	Time	: 10:00 to 12:00 hrs.	Total Marks	: 40
Day & Date	: Wednesday, 29.03.2023				

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Define Agricultural Meteorology. Write its practical importance in agriculture.
- Q.2 What is solar constant? Explain the significance of solar radiation in agriculture.
- Q.3 Define air temperature and explain the factors affecting air temperature.
- Q.4 Describe physical structure of atmosphere based on vertical temperature variation.
- Q.5 Define the terms- evaporation and transpiration. Enlist factors affecting on evaporation.
- Q.6 Enlist types of drought and discuss the strategies to mitigate the drought.
- Q.7 What is climate change? Explain in brief the causes of climate change.
- Q.8 Define weather forecasting. Give the types of weather forecasting and their utility.
- Q.9 Enlist greenhouses gases. Explain response of CO₂ in C₃ and C₄ plants.
- Q.10 Write short notes on (Any Two):
- a) Weather and climate b) Remote sensing c) Types of Monsoon

SECTION 'B'

- Q.11 Define the following terms:
- 1) Air pollution 2) Cloud 3) Relative humidity 4) Isobar
- Q.12 Do as directed:
- 1) _____ gas absorbs ultraviolet radiations in the atmosphere.
 - 2) Write the full form of IPCC.
 - 3) Relative humidity of saturated air is _____ per cent.
 - 4) Soil temperature plays a measure in seed germination (State True or False).

