

MAHARASHITRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: 1 (New)	Term	: First	Academic Year	: 2023-24
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	: Tuesday, 16.01.2024				

- 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 the term Agricultural Meteorology and explain its role in increasing crop production.
- Q.2 Define Wind. Describe earth's general circulation system of wind.
- Q.3 Define Weather and Climate. Differentiate between them.
- Q.4 Define Temperature. Discuss the factors affecting air temperature.
- Q.5 Define Solar radiation and give its significance in agriculture.
- Q.6 Define Cloud. Give the classification of clouds on the basis of their height.
- Q.7 Define Condensation and Precipitation. Discuss the forms of precipitation.
- Q.8 What is Soil temperature? Describe its significance in crop production.
- Q.9 What do you mean by Weather forecasting? Give its classification based on validity period. Write in brief importance of weather forecast in agriculture.
- Q.10 Write short notes on (Any Two):
- a) Strategy to mitigate the drought condition
 - b) Evaporation and Evapotranspiration
 - c) Remote sensing and Global Warming
 - d) Composition of atmosphere

SECTION 'B'

- Q.11 Define the following terms:
- 1) Isobar 2) Greenhouse gases 3) Atmospheric pollution 4) Drought
- Q.12 Fill in the blanks:
- 1) Light is essential for absorption of CO₂ and _____ in plants.
 - 2) Relative humidity is _____ at equator.
 - 3) CFCs is the abbreviated form of _____.
 - 4) The solid impurities dispersed in the atmosphere are called _____.

