MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: I (New)	**Term**	: I	**Academic Year**	: 2019-20
Course No.	: H/AGROMET 111				
Credits	: 2(1+1)	**Title**	: Agro-meteorology and Climate Change		
Day & Date	: Saturday, 04.01.2020	**Time**	: 10.00 to 12.00	**Total Marks**	: 40

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 diagrams wherever necessary.

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SECTION "A"

Q.1 Define Agricultural Meteorology. Explain its role in crop production.

Q.2 Differentiate between weather and climate.

Q.3 Explain in detail the vertical structure of atmosphere.

Q.4 Define temperature. Enlist the factors affecting air temperature.

Q.5 Define solar radiation. Explain the significance of solar radiation in agriculture.

Q.6 Define weather forecasting. Write in brief the importance of weather forecasting in agriculture.

Q.7 Define drought. Suggest the strategies to mitigate the drought conditions.

Q.8 Enlist the Agroclimatic zones of Maharashtra with their place of head quarter. Explain Central Vidarbha Zone with its climate and annual rainfall, type of soil topography and major crops grown.

Q.9 Define Cloud. Enlist different types of clouds.

Q.10 Write short notes. (Any Two)

a) Role of Remote sensing in agriculture b) Soil water balance equation

c) Heat Unit Concept

SECTION "B"

Q.11 Define the following terms.

1) Atmospheric pressure 2) Solar constant

3) Isobar 4) Climate change

Q.12 Fill in the blanks.

1) Head quarter of IMD is situated at _____.

2) Permanent drought is mostly found in _____.

3) The air is _____ conductor of radiation.

4) Trade winds blow from tropics towards_____.

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