MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: I (New)	**Term**	: I	**Academic Year**	: 2015-16
Course No.	: AGRO 112	**Title**	: Agricultural Meteorology		
Credits	: 2(1+1)				
Day & Date	: Thursday, 10.12.2015	**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.

SECTION "A"

Q.1 Define radiation. Discuss the factors affecting solar radiation receipt on the earth's surface.

Q.2 Describe the physical structure of the atmosphere based on vertical temperature variation.

Q.3 Define weather and climate. Differentiate between them.

Q.4 Define Agricultural Meteorology and explain its role in increasing crop production.

Q.5 Describe earth's general circulation system of wind.

Q.6 Define cloud. Give its classification on the basis of their height.

Q.7 What is condensation and precipitation? Describe in brief about each form of condensation.

Q.8 Define drought. Enlist various types of drought and suggest the strategy to mitigate the drought condition.

Q.9 What do you mean by weather forecasting? Give its classification based on validity period. Write in brief about importance of weather forecast in agriculture.

Q.10 Write short notes (Any two).
1) Hydrological cycle
2) Green house effect
3) Indian monsoon

SECTION "B"

Q.11 Define the following terms.
1) Equinox
2) Isobar
3) Relative humidity
4) Hailstorm

Q.12 Fill in the blanks.
1) The rate of decrease in air pressure is higher where the density is_____.
2) _____ coloured soil absorb more radiation from the sun.
3) One standard atmospheric pressure = _____ mb.
4) Dry adiabatic lapse rate is high in the _____ air.

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