MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	**: I (New)**	**Term**	**: I**	**Academic Year**	**: 2016-17**
Course No.	**: AGRO 112**	**Title**	**: Agricultural Meteorology**		
Credits	**: 2(1+1)**				
Day & Date	**: Friday, 09.12.2016**	**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 Explain various types of drought and discuss the strategies to mitigate the drought.

Q.2 Define temperature and elaborate the factors affecting air temperature.

Q.3 What is meant by precipitation? Explain different forms of precipitation.

Q.4 Discuss physical structure of atmosphere based on vertical temperature variation.

Q.5 Define agricultural meteorology and write in brief its scope.

Q.6 What you mean by weather forecasting? Give the types of weather forecasting and their utility.

Q.7 Differentiate between weather and climate.

Q.8 Define crop modelling and state its application in agriculture.

Q.9 What are the different methods or ways of transfer of heat energy? Elaborate the significance of solar radiation in agriculture.

Q.10 Write short notes (Any two).

1) Condensation 2) Humidity 3) Remote sensing

SECTION "B"

Q.11 Define the following terms.

1) Lapse rate 2) Atmosphere

3) Rainy day 4) Isotherm

Q.12 Do as directed.

1) Give the name of instrument that is used to measure total incoming radiation.

2) In stratosphere the temperature increases with increase in altitude. (State True or False)

3) A sample of pure air on an average consists_____% of argon. (Fill in the blanks)

4) The direction to which wind blows is called _____. (Fill in the blanks)

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