

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD-PUNE**  
**SEMESTER END EXAMINATION**

**B.Sc. (Hort.)**

**Academic Year : 2015-16**

**Semester : I (New)**

**Term : I**

**Course No. : H/AGROMET 111**

**Title : Agricultural Meteorology**

**Credits : 2(1+1)**

**Day & Date : Thursday, 10.12.2015**

**Time : 10.00 to 12.00**

**Total Marks**

- 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 Enlist and describe the various forces governing by the wind.
- Q.2 Define cloud. Give the classification of clouds based on their height.
- Q.3 What is precipitation? Enlist the forms of precipitation and describe in brief each form of precipitation.
- Q.4 Define atmosphere. Describe the physical structure of the atmosphere based on vertical temperature variation.
- Q.5 What do you mean by weather and climate? Describe in detail physical factors of the climate.
- Q.6 What do you mean by solar radiation? Describe in detail the types of solar radiation and write down significance of solar radiation in Agriculture.
- Q.7 Enlist the factors affecting the temperature and how the atmosphere gets heated?
- Q.8 Write short notes (Any two).
- 1) Remote sensing
  - 2) Crop modeling
  - 3) Weather forecasting
- Q.9 What is drought? State various types of drought. Give the strategy to mitigate the drought.
- Q.10 Define the term Agricultural Meteorology and describe in detail the scope of Agricultural Meteorology.

**SECTION "B"**

- Q.11 Define the following term.
- 1) Isohyets
  - 2) Specific humidity
  - 3) Albedo
  - 4) Cyclone
- Q.12 Fill in the blanks.
- 1) The average lapse rate observed in troposphere is \_\_\_\_\_ °C/km
  - 2) The lines connecting the places having the same atmospheric pressure is known as \_\_\_\_\_
  - 3) The direction from which wind blows is known as \_\_\_\_\_
  - 4) \_\_\_\_\_ colored soils absorb more solar radiation.

