



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons) Forestry 2018 Admission
II Semester Final Examination-August 2019

Bass.1208

Climate Science (1+1)

Marks: 50
Time:2 hours

I Match the following

(10x1=10)

- | | |
|-----------------------|--------------------------|
| 1 Pyranometer | a Evaporation |
| 2 Pyrheliometer | b Relative humidity |
| 3 Pyrgeometer | c Direct solar radiation |
| 4 Atmometer | d Unit of length |
| 5 Psychrometer | e Alcohol in glass |
| 6 Micrometer | f Pressure |
| 7 Minimum thermometer | g Evapotranspiration |
| 8 Maximum thermometer | h Radiation from earth |
| 9 Barometer | i Total solar radiation |
| 10 Lysimeter | j Maximum Temperature |

II Write short notes on any FIVE of the following

(5x2=10)

- 1 Collision-Coalescence Theory.
- 2 Solar constant.
- 3 Growing Degree Days.
- 4 Stefan-Boltzmann's law.
- 5 Hydrological drought.
- 6 Black body radiation.
- 7 Potential evapotranspiration.

III Answer any FIVE of the following.

(5x4=20)

- 1 Stratification of atmosphere based on temperature.
- 2 Cyclones and anticyclones.
- 3 Global warming.
- 4 Radiation distribution in plant canopy.
- 5 Factors affecting temperature at a place.
- 6 Hydrologic cycle.
- 7 Radiation balance.

IV Answer any ONE of the following

(1x10=10)

- 1 Various processes, types and forms of precipitation.
- 2 Koppen's climatic classification.
