

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture 2016 Admission
Ist Semester Final Examination-March-2017

Cat. No: Agmt 1101

Marks: 50.00

Title: Introductory Agro-meteorology & Climate Change (1+1)

Time: 2 hours

I.Fill up the blanks

(10 x 1=10)

1. The lowest layer of the atmosphere is called -----
2. Weight of water vapour per unit volume of air is called -----
3. Average value of environmental lapse rate is -----°C per km.
4. A visible aggregate of minute particles of water or ice or both in free air is called -----
5. The difference between saturation vapour pressure and actual vapour pressure is termed -----
6. Sc and St belong to the family of ----- clouds (low / middle / high).
7. ----- comprises upto 4 per cent of the atmosphere by volume.
8. The capacity of air to hold moisture ----- with increase in temperature (increases / decreases)
9. The science which deals with the study of atmosphere and its various phenomena is -----
10. ----- meteorology deals with the co-ordinated study of the various process of the atmosphere.

II. Write short notes on ANY FIVE

(5 x 2 = 10)

1. Macroclimate
2. Short wave radiation
3. Soil heat flux
4. Gradient wind
5. Photoperiodism
6. Temperature inversion
7. PAR

III. Answer any FIVE questions

(5 x 4 =20)

1. With a sketch, briefly explain the standard atmospheric pressure systems / belts.
2. Briefly explain the different forms of condensation.
3. Write the scope and importance of agricultural meteorology.
4. Give a brief account of applications of remote sensing in agriculture.
5. Write the significance of crop weather calendar and crop weather diagrams.
6. Briefly discuss about the Ice-crystal theory of Bergeron.
7. Define condensation and explain its different forms.

IV. Write Essay on ANY ONE

(1x10=10)

1. Discuss about the importance, types and applications of weather forecasting in agriculture.
2. Give a detailed account of weather and climate related natural disasters and their risk and management options.
