

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Agriculture – 2008 Admission - 1st Semester**  
**Final Examination – March/April 2009**

Title : Agmt 1101  
Course: Agricultural Meteorology (1+1)

Max. marks: 80  
Time : 3 hours

I

**A. Fill in the blanks**

(10x0.5=5)

1. Father of agro meteorology in India is .....
2. ....is also known as photosynthetically active radiation.
3. ....layer of atmosphere is known as weather making layer.
4. High humidity is favourable for incidence of .....
5. Lines joining equal amount of rainfall is called as.....
6. ....is the normal onset date of southwest monsoon in kerala.
7. Cocoa is sensitive to .....temperature, which results in apical dominace.
8. Information on .....is provided in the lower part of the crop weather calender.
9. Geographical distribution of pests is mainly based on .....factors.
10. Geostationary satellites operate at an altitude of .....km

II

**B. Say true or false**

10x0.5=5

1. CO<sub>2</sub> increase in the atmosphere is not responsible for global warming
2. Temperature inversion is noticed in crop during its maximum growth
3. Coriolis effect is felt more at equator
4. Clear skies during nights are not favorable for dew formation
5. Premonsoon showers are conducive for incidence of gallmidge in rice
6. Short curve cards are also called as Summer cards
7. A minimum temperature below which growth ceases is known as cardinal temperature
8. The amount of cloud cover is denoted by "Okta"
9. Medium range forecast is valid for more than ten days
10. The decrease in air temperature with height is known as dry adiabatic lapse rate.

PTO →

(10x1=10)

III

**Define**

1. Climate
2. Insolation
3. Global warming
4. Lithosphere
5. Relative humidity
6. Doldrums
7. Remote sensing
8. Isobar
9. Frost
10. Tropopause

(10x2=20)

IV

**Write Short notes on any 10 of the following**

1. Write short notes on lapse rate.
2. Write briefly on Cumulonimbus cloud
3. What is short wave radiation
4. Write shortly on mesosphere
5. Write short notes on open pan evaporimeter
6. Differentiate dew and fog
7. Write about the influence of **weather** on gall midge pest
8. Write few examples for **polar orbiting** and **geo-stationary satellites**
9. What are the two types of monsoon and which one is more predominant monsoon for india
10. Distinguish between rainfall and drizzle
11. Write about thunderstorm
12. Write short notes on ozone layer

V

**Write Short essay on any 4 of the following**

(4x5=20)

1. Explain the applications of remote sensing in agriculture
2. Write about the types of climate
3. Explain the factors affecting surface air temperature
4. Describe the global distribution of pressure and wind
5. Write about Collision- coalescence theory to explain rainfall mechanism
6. Discuss the possibilities for artificial rainfall making

VI

**Write long essay on any 2 of the following**

(2x10=20)

1. Write in detail about general circulation of atmosphere
2. Describe the types of weather forecasting and its importance in agriculture
3. Write about the site selection and draw a lay out of instruments in agromet observatory

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