



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag. 2018 Admission**  
**I Semester Final Examination-February-2019**

gmt.1101

**Introductory Agro-meteorology and Climate Change(1+1)**

**Marks:50**  
**Time: 2 hours**

**I**

**Choose the correct answer**

**(10x1=10)**

- 1 The direction of winds in a cyclone is  
a Clockwise in the northern hemisphere    b Anticlockwise in the southern hemisphere  
c Anticlockwise in the northern hemisphere    d Outwards from the centre of the cyclone
- 2 The temperature at which the atmosphere becomes saturated at constant water vapour content is known as:  
a Wet bulb temperature    b Dew point temperature  
c Dry bulb temperature    d In-situ temperature

**Fill in the blanks**

- 3 With respect to the wavelengths of radiation, solar radiation is known as.....
- 4 The thunder producing cloud is .....

**State True or false**

- 5 In the atmosphere, the lowest air temperature is experienced at mesopause region.
- 6 Southwest monsoon circulation sets all over India simultaneously.

**Name the following**

- 7 Meeting zone of two trade winds.
- 8 Weather forecasting for the nearest 48 hour.

**Define**

- 9 Albedo
- 10 Lapse rate

**II**

**Write Short notes on ANY FIVE of the following**

**(5x2=10)**

- 1 Ten important cloud species.
- 2 Solar radiation
- 3<sup>rd</sup> Distinguish between absolute humidity and specific humidity.
- 4 Greenhouse effect
- 5 Ozone in the atmosphere
- 6 Artificial rainmaking
- 7 Aerosols

**III**

**Answer ANY FIVE of the following**

**(5x4=20)**

- 1 Vertical structure of the atmosphere with respect to the vertical temperature profile.
- 2 Sea breeze and land breeze.

**P T O**

- 3 Different forms of precipitation.
- 4 Salient features of tropical cyclones.
- 5 Importance of weather on agriculture.
- 6 Different types of weather forecasting.
- 7 Composition of dry air.

**IV Write an essay on ANY ONE of the following**

**(1x10=**

- 1 Energy balance of the earth-atmosphere system.
- 2 Indian monsoon and associated rainfall.

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