

B.Sc.(Ag.) Honours Semester– I Examination, 2014

Course No. : AGR –111 (Agricultural Meteorology)

(Old Syllabus)

Signature of Centre Superintendent

Roll No.: (in figure) _____ (in words) _____
Student Index No. _____ Regn. No. _____ of _____

Time : Two hours

Full marks : 50

Questions are of value as indicated in the margin

Part-I

(Objective and Short Answer Type)

(Use only ball point pen)

Time : 30 minutes

Full marks : 20

- Note:** 1. Answer in question paper itself.
2. Striking, rewriting and overwriting are not allowed in the objective type questions.

1. Write True (T) or False (F) in the space provided for the following statements (*any five*):

1×5=5

- i) Increasing wind speed decreases evapotranspiration from crop surface ☐
- ii) The wind speed is measured by anemometer ☐
- iii) Indian rainfall is orographic in nature ☐
- iv) The amount of dew is measured by drosometer ☐
- v) The head quarter of IMD is at Kolkata ☐
- vi) Mercury is used in minimum thermometer ☐
- vii) Transpiration occurs both in living and non-living bodies ☐

2. Fill in the blanks (*any five*) of the following:

1×5=5

- i) The state of West Bengal has been divided into _____ agroclimatic zones.
- ii) The instrument, which is used to measure pressure of air _____.
- iii) Hail can be produced by _____ cloud.
- iv) The layer of atmosphere, where the changes of weather is prominent, is known as _____.
- v) The approximate value of solar constant is _____.
- vi) Major part of Birbhum district comes under _____ zone.
- vii) The weight of one cm rainfall per hectare is about _____ kg.

3. Write notes on (*any five*):

2×5=10

- i) Weather

ii) Frost

iii) Cyclones

iv) Transpiration

v) Solar constant

vi) Potential evapotranspiration

vii) Warm cloud

viii) Micro climate

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Part–II

(Descriptive Type)

Time : 1.5 Hours

Full marks : 30

Questions are of value as indicated in the margin.

Answer **any three** questions from the following.

4. Define precipitation and snow. Name the various forms of precipitation. Write the favourable conditions for dew formation. 3+2+5=10

 5. (i) What is evaporation? Enumerate the factors affecting evaporation.
(ii) What is cloud? Classify the clouds according to their height and briefly describe the characteristics of each of them. (1+4)+(1+1+3)=10

 6. What do you mean by agroclimate? Briefly describe the agroclimatic zones of West Bengal. 2+8=10

 7. What do you mean by cardinal temperature? Discuss the effect of both low and high temperature on crop plants. 3+7=10

 8. Define atmosphere and write down its composition on volume basis. Briefly describe the extent and structure of the each layer of atmosphere. 1+2+7=10
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