

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

**Course No. : AGR –112 (Principles of Agronomy and
Agricultural Meteorology)**

(New Syllabus)

Signature of Centre Superintendent

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

Time : Two hours

Full marks : 40

Questions are of value as indicated in the margin

Part-I

(Objective and Short Answer Type)

(Use only ball point pen)

Time : 20 minutes

Full marks : 10

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

1. State True (T) or False (F) in respect of the following statements: (any five) $5 \times 0.5 = 2.5$

- (a) Eye of the cyclone experience low pressure. ☐
- (b) Atmospheric pressure increases with increase in the altitude. ☐
- (c) At least 2.5 cm rainfall per day is required to consider it as a rainy day. ☐
- (d) Groundnut is a leguminous oil seed crop. ☐
- (e) Nimbo-stratus (Ns) is a rain bearing cloud. ☐
- (f) Usually maximum air temperature is recorded at around 1200 Noon. ☐

2. Fill in the blanks with most appropriate words (any five): $5 \times 0.5 = 2.5$

- (a) _____ is considered as the father of tillage.
- (b) Line joining the location receiving same amount of rainfall is called as _____.
- (c) Direction toward which wind blows is called as _____ direction.
- (d) Wave length of PAR is _____ than UV radiation.
- (e) One common example of green manuring crop is _____.
- (f) Puddling is an important agricultural operation followed in _____ crop.

3. Write down the full form and Headquarters (location) of the following (any five):

$5 \times 0.5 = 2.5$

- (a) NBSS & LUP
- (b) IARI
- (c) CRRI
- (d) ICRISAT
- (e) CRIJAF
- (f) IMD

4. Define (*any five*):

5×0.5=2.5

(a) Agronomy

(b) Weather

(c) Solar Constant

(d) Lapse Rate

(e) Dew

(f) Intercropping

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Part–II

(Descriptive Type)

Time : 100 Minutes

Full marks : 30

Questions are of value as indicated in the margin.

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

5. Define tillage. What are the properties of good tilth? Write in short about different types of tillage.
1+1.5+5=7.5
 6. What are the criteria for essentiality of plant nutrients? Classify essential plant nutrients and mention their plant available forms. Differentiate between Manures and Fertilizers.
1.5+4+2=7.5
 7. Define cropping system. Explain different types of cropping system with suitable examples. What do you mean by crop rotation?
1+5+1.5=7.5
 8. Define atmosphere. Write briefly about the composition of atmosphere. Explain the structure of atmosphere with suitable diagram. Enlist the elements of weather along with the name of instrument(s) required for their estimation / measurement.
1+1.5+2.5+2.5=7.5
 9. What do you mean by cloud. Classify clouds. What do you mean by cardinal temperature? Write in brief the influence of air temperature on crop plants.
1+2+1.5+3=7.5
 10. Write short note on the following (**any three**):
2.5×3=7.5
 - (a) Crop geometry
 - (b) Biofertilizer
 - (c) Weather forecasting
 - (d) Physiological maturity
 - (e) Agro-climatic zones of India
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