

2004-04

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2004 Admission IV Semester Final Examination,
December 2006

Agro 2206
Rainfed Agriculture (1+1)

Max. Marks: 60
Time: 2 hours

PART - I

Answer **All** the questions:

20 x 0.5 = 10.00

1. In dry farming crop growth will be normal when -----
(PPT > PET or PET > PPT)
2. The rainfall pattern with two peaks in a year is known as -----
3. Transpiration is necessary and unavoidable evil (Yes / No)
4. Agricultural drought is mainly due to deficiency of soil moisture (Yes / No)
5. The more assured rainfall is -----
(Normal Rainfall, Probable Rainfall and mean Rainfall)
6. The method of runoff collection, storage and recycling is known as-----
7. PMA is a ----- type of antitranspirant
8. CRIDA is located at -----
9. ----- is an example for anti-evaporant
10. The probability of getting a certain amount of rainfall during a week is known as
----- (initial probability, conditional probability, sowing rain
probability)
11. Cultivation of annual crops in rotation with pasture crops is known as -----
(strip cropping / ley farming)
12. ----- is seed hardening chemical for sunflower (KCl, ZnSO₄)
13. Selection of crops and cropping system is mainly depend on rainfall as well as soil
character (Yes / No)
14. Higher variability in the onset of monsoon affects -----
(time of sowing , selection of crops)
15. Bunding is more ideal for vertisols for soil moisture conservation (Yes / No)
16. Variations in quantity of rainfall between locations is known as -----
(spatial variability / temporal variability)
17. ----- an international institute located in India for dryland research

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18. ----- an agrostological measure involves raising of grasses across the slope and along contour to conserve the soil moisture (vegetative barrier, ley farming)
19. Ploughing across ----- conserve moisture
20. ----- system provides a live mulch

PART - II

Answer **All** the question

6 x 1 = 6.00

1. Moisture Available Index
2. Farm pond
3. Anti transpirant
4. Pre-monsoon sowing
5. PET
6. Once over tillage

PART - III

Answer any **SIX** only

6 x 2 = 12.00

1. Dry farming and rainfed farming
2. Agricultural drought and meteorological drought
3. Contingency planning
4. Seed hardening
5. Ley farming and Strip cropping
6. Dust mulch and Vertical mulch
7. Normal rainfall and Probable rainfall
8. Dry land weeders

PART - IV

Answer any **FOUR**

4 x 3 = 12.00

1. Describe alley cropping and its types
2. Silviculture system
3. Constraints in dry farming
4. Explain different types of antitranspirant
5. Role of agroforestry
6. Mid - season correction

PART - V

Answer any **FOUR**

4 x 5 = 20.00

1. Discuss in detail about soil fertility management in dry farming
2. What is meant by alternate land use system ? Where it is suggested .Why? Explain in detail about agri-horti system
3. Explain various *in-situ* soil moisture conservation methods suggested for dryland
4. Explain the various aspects to be covered under tillage to increase the rainfall use efficiency
5. Watershed management is a holistic approach in the development of rainfed areas –
Discuses in detail