



KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) Ag. 2016 admission
VI Semester Final Examination - July-2019

No.3209

Rainfed Agriculture and Watershed Management (1+1)

Marks: 50
Time: 2 hours

Fill in the blanks

(10x1=10)

- 1 Dryland farming contributes toper cent of food production in India.
- 2 The text book entitled Physiological aspects of Dryland Farming was written by
- 3 The basic geohydrological unit of development is
- 4 Plants completing their life cycle before the onset of drought condition are known as.....
- 5 The technique of conserving rainwater at the place where it falls is known as.....

State True or False

- 6 Based on the moisture index concept India is divided into 4 zones.
- 7 Gully plugging is a type of agronomic measures of soil conservation.
- 8 Under land capability classification Class V soils are suitable for intensive cultivation.
- 9 Plastic mulches are the most effective mulches under dryland conditions.
- 10 Sowing of seeds or planting of seedlings in the same row year after year is known as strip cropping.

Write short notes on ANY FIVE of the following

(5x2=10)

- 1 Contour cultivation.
- 2 Bench terracing.
- 3 Antitranspirants.
- 4 Shelterbelts.
- 5 Mid season corrections.
- 6 Agricultural drought.
- 7 Supplemental irrigation.

Answer ANY FIVE of the following

(5x4=20)

- 1 Write about the modern concepts of tillage.
- 2 Explain different forms of water erosion.
- 3 Define mulch and explain about different types of mulches along with suitable examples.
- 4 What is soil crust? Write about the adverse effects of crust and management of soil crust.
- 5 Estimation of ET.
- 6 Effects of water deficits on physio-morphological characteristics of plants.
- 7 What is Agroforestry and write about the different agroforestry systems.

Write an essay on ANY ONE of the following

(1x10=10)

- 1 Problems and prospects of dryland farming in India.
- 2 Components of watershed management.
