

End Semester/Reappear (Semester VI) Examination May 2025

Programme: B. Sc. (Hons.) Agriculture

Course: Rainfed Agriculture and Watershed Management

Course Code: 13A.159

Enrolment no. _____

Full Marks: 50

Time: 2 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Describe briefly major bio-physical constraints in rainfed agriculture.	CO1	Remember	4 x 5 = 20
	or			
b	Summarize importance of watershed in rainfed agriculture in India.	CO1	Understand	
	or			
c	Discuss different kinds of anti-transpirants with suitable examples.	CO2	Remember	
	or			
d	Choose the suitable tillage practices used for dryland conditions.	CO2	Apply	
	or			
e	Explain Broad Bed and Furrow method. List the advantages of Broad Bed and Furrow method.	CO3	Understand	
	or			
f	Define water harvesting. Compare inter row and interplot water harvesting methods.	CO3	Understand	
	or			
g	Define agroforestry. Apply your knowledge about categorizing different types of agroforestry system.	CO4	Apply	
	or			
h	Explain alternate land use system. List its advantages.	CO4	Understand	
	or			
Section II				
Long Answer type questions.				
2	Design a comprehensive plan to improve agricultural productivity under these rainfed conditions if you are an agricultural extension officer working in a region where rainfed agriculture is the primary means of farming and the local farmers are struggling with erratic rainfall patterns, declining soil fertility, and frequent crop failures.	CO1	Create	2 x 15 = 30
	or			
3	Assess the mechanical and cultural techniques to enhance process of infiltration in rainfed agriculture.	CO1	Evaluate	
	or			
4	Define watershed. Evaluate the hierarchy and problems of watershed.	CO4	Evaluate	
	or			
5	Explain Integrated watershed management. Discuss delineation and types of watershed.	CO4	Analyze	
	or			

Course Outcome:

At the end of the course the student will be able to:

CO1: Understand about rainfed agriculture and watershed management in India.

CO2: Recognize soil, water and climatic conditions dominant in rainfed areas.

CO3: Understand and water conservation techniques, watershed management in rainfed areas.

CO4: Comprehend integrated watershed management and its factors.

