

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Discuss how the adaptive traits of weeds contribute to their survival and persistence across various habitats.	CO1	Understand	4 x 5 = 20
	or			
	Explain the key differences between weeds and cultivated plants.	CO1	Understand	
b	List and briefly explain three harmful effects of weeds on human activities and natural ecosystems.	CO2	Remember	
	or			
	Describe how a specific weed spreads its seeds through wind, including details about its reproductive structures.	CO2	Understand	
c	Describe the working mechanism of pre-emergent herbicides and give an example of a commonly used one.	CO3	Understand	
	or			
	Differentiate between conventional herbicides and bio-herbicides, highlighting their key characteristics.	CO3	Understand	
d	Identify examples of herbicide-resistant weeds and explain how this affects weed management in practice.	CO3	Apply	
	or			
	Explain how does repeated use of the same herbicide or mode of action promote herbicide resistance?	CO3	Apply	
Section II				
Long Answer type questions.				2 x 15 = 30
2	a. Evaluate the advantages and limitations of using allelopathy for weed control relative to conventional chemical herbicides.	CO3	Evaluate	10
	b. Describe the mechanism by which bioherbicides control weeds and their role in sustainable weed management.	CO3	Understand	5
	or			
	a. Compare the allelopathic influence of two plant species on a shared weed target, discussing their modes of action and relative effectiveness.	CO3	Analyze	10
	b. Explain the role of allelopathy in shaping plant interactions and competition within natural and managed ecosystems.	CO3	Understand	5
3	a. Explain the importance of herbicide compatibility in integrated crop management practices. Support your explanation with real-world examples.	CO4	Analyze	10
	b. Explain various biological approaches used for managing weed populations, including the use of natural predators, pathogens, or competitive plants.	CO4	Understand	5
	or			
	a. Assume the role of a farmer dealing with herbicide-resistant weeds and propose a comprehensive weed management plan for the upcoming growing season. Include at least three strategies and justify your choices.	CO4	Evaluate	10
	b. Discuss the role of rotating herbicides and using mixtures in reducing the risk of resistance development in weeds.	CO4	Understand	5

Course Outcome:

CO1 Know different weeds, their life cycle and impact on agriculture.

CO2 Distinguish different types of weed and their reproduction and dissemination method.

CO3 Understand the concepts of herbicides, bioherbicides, allelopathy and their application.

CO4 Plan weed management and weed management processes.