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252-55-005
Adnan

Daffodil International University
Faculty of Agriculture Science
Department of Agricultural Science
Final Examination, Semester: Summer 2026

Course Code: 08112101 Course Title: Principles of Weed Science
Section: All Level-Term: L-2, T-1 Teacher's Initial: UHH
Full Marks: 40 Time: 02 Hour

Splitting any answer is strictly prohibited.

1	(a)	Discuss any four cultural practices employed for weed control, explain how each helps to suppress weed growth.	CLO3, C2	4
	(b)	Define allelopathy Explain any three types of allelopathic interaction with examples.	CLO2, C2	4
2	(a)	Classify the methods of weed control. Briefly explain any three physical/mechanical methods of weed control.	CLO3, C2	4
	(b)	Discuss the merits and demerits of biological weed control. State at least two examples of bio-agents used against weeds growth.	CLO3, C2	4
3	(a)	Define Integrated Weed Management (IWM. Write down the aim of IWM.	CLO3, C1	3
	(b)	Explain the concept of IWM as defined by FAO. Discuss the three key stages of life cycle (seeds, seedlings, mature plants) of weeds mentioned t in an IWM programme, and also write down the strategies used to intervene at each stage.	CLO3, C2	5
4	(a)	Classify herbicides on the basis of (i) mobility and (ii) time of application, giving one example for each category.	CLO5, C2	4
	(b)	Explain the mode of action of any four herbicide families, providing one example of herbicide for each.	CLO5, C3	4
5	(a)	Describe how herbicides behave within plants after application, referring to the requirements for herbicidal effectiveness at the site of action.	CLO5, C2	4
	(b)	Explain the movement and degradation processes that determine the fate of herbicides in soil (e.g., volatilization, leaching, adsorption, microbial and photochemical degradation).	CLO5, C2	4