



252-55-005

Adnan

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

Course Code: 08112101
Section: All
Full Marks: 40

Course Title: Principles of Weed Science

Level-Term: L-2, T-1

Teacher's Initial: UHH

Time: 02 Hour

Splitting any answer is strictly prohibited.

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|---|-----|--|-------------|---|
| 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 |