



Khulna University

School: Life Science **Discipline:** Agrotechnology **Program:** Undergraduate

Year: First **Term:** Second **Examination Year:** 2025 **Session:** 2024-25

Course Code: 0811 08 AT 1201 **Course Title:** Weed Management

Total Marks: 60 **Time:** 3 hours **Credit:** 3.0

- The **figures** in the right margin indicate full marks. The questions are of equal value.
- Use separate sheet for each section.
- Draw and label where necessary
- There are **four** questions in each section, answer any **three** from each.

Section-A

Ques. No.	Question Description [CLO and Level]	Marks
1. a)	Define weed. Classify weeds on their basis of habitat with examples. [L1; CLO1]	4.0
b)	Compare between the following weed types with examples i) Absolute weed and Relative weed ii) Parasitic weed and Associated weed. [L2; CLO1]	4.0
c)	Name four weeds of Poaceae family with their botanical names. [L1; CLO1]	2.0
2. a)	'Ability of vegetative propagation provides pereneial weeds significant benefits' - judge. [L4; CLO1]	3.0
b)	'Wind act as an agent of weed seed dispersal' - explain with examples. [L2; CLO1]	4.0
c)	Discuss the process of weed seed bank formation in agricultural ecosystems. [L2; CLO1]	3.0
3. a)	Define critical period of crop-weed competetion. [L1; CLO2]	1.5
b)	Differentiate among xerophytic, mesophytic and hydrophytic weeds with one example from each. [L4; CLO1]	3.0
c)	Compare between agricultural ecotype and chemotype. [L2; CLO1]	2.5
d)	Compare and contrast crop-bound and season-bound weeds. [L2; CLO2]	3.0
4. a)	What is allelopathy? Write the allelopathic effect of weeds on wheat, maize and sunflower. [L1; CLO2]	5.0
b)	What are allelochemicals? How are these produced in nature? Explain. [L1,2; CLO2]	2.5
c)	Summarize how do allelochemicals affect seed germination and plant growth. [L2; CLO2]	2.5

Section-B

5. a)	Clarify the differnces between weed control and weed eradication. [L2; CLO3]	2.0
b)	Describe prevention as a strategy of weed management. [L4; CLO3]	3.0
c)	State the advantages and limitations of physical method of weed control. [L1; CLO3]	3.0
d)	Dintinguish between bioagent and herbicide. [L2; CLO3]	2.0
6. a)	'Crop rotations are effective in controlling crop-associated and crop-bound weeds'. Explain with examples. [L2; CLO3]	3.0
b)	Assess the role of smoother crops in weeds suppression. [L5; CLO3]	3.0
c)	Compare contact herbicie and translocated herbicide with example. [L1; CLO4]	2.0
d)	State the factors influencing the efficacy of soil applied herbicides. [L1; CLO4]	2.0
7. a)	'Soil applied herbicides are more effective than foliage applied herbicides'- comment on it. [L4; CLO3,4,5]	2.5
b)	Report the major modes of action of herbicides. [L2; CLO3,4]	2.5
c)	'Granular herbicides have a number of benefits over water soluble concentrates'. Evaluate. [L5; CLO4]	3.0
d)	Explain integrated weed management. [L2; CLO4]	2.0
8. a)	What is selectivity of herbicides? [L2; CLO4]	1.5
b)	Assess the process of metabolism for better selectivity of herbicides. [L4; CLO4]	3.0
c)	Suggest some guidelines for herbicidal weed control in transplant aman rice. [L6; CLO5]	3.0
d)	How is herbicide affect human being? [L2; CLO3]	2.5

*Levels of Bloom's cognitive domain:

[L1=Remember; L2=Understand; L3=Apply; L4=Analyze; L5=Evaluate; L6=Create]