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

Course Code: 0814-1205
Course Title: Agricultural Chemistry -I (Fertilizers, Agro Chemicals & Environmental Chemistry)
Section: 253 All
Level-Term: L-1, T-3
Teacher's Initial: MSA
Full Marks: 40
Time: 2 Hours

"Split answering is strictly prohibited"

1.a)	Analyze the different types of biological control methods with suitable examples.	(PLO1,CLO3,C4)	4
b)	What is a pesticide? Write any one classification of pesticides.	(PLO1,CLO3,C2)	4
2.a)	A farmer wants to reduce pesticide use without reducing crop yield. Create an Integrated Pest Management (IPM) plan that combines different pest control methods. Explain why your plan would be effective.	(PLO1,CLO3,C6)	5
b)	Compare attractants and repellents with suitable examples.	(PLO1,CLO3,C4)	3
3.a)	Define the following terms: decantation, diluent, LD50, surfactant, and wetting agent.	(PLO1,CLO3,C1)	5
b)	A solid pesticide is mixed with water before spraying. It forms a suspension and requires constant agitation before and during application. Identify the pesticide formulation and describe it.	(PLO2,CLO3,C3)	3
4.a)	An industry releases untreated wastewater into a river. Evaluate this practice and justify why wastewater should be treated before discharge.	(PLO2,CLO4,C5)	5
b)	Compare any three effects of air pollution and water pollution on the environment.	(PLO2,CLO4,C4)	3
5.	Suppose your city is facing increasing air pollution. Explain how this may contribute to acid rain and the greenhouse effect, and suggest ways to reduce these problems.	(PLO2,CLO4,C3)	8