Daffodil International University

Department of Agricultural Science
Faculty of Health & Life Sciences
Final Examination, Fall 2025

Course Code: 0811-1101
Section: All
Full Marks: 40

Course Title: Agronomy-I (Principles of Agronomy)
Level-Term: L-1, T-1
Teacher's Initial: MTA, SB
Time: 2 Hours

"Split answering is strictly prohibited"

1.	a)	Define bio-fertilizer and List down the bio-fertilizer with examples	PLO4 CLO6 C1	2
	b)	Discuss the benefits of bio-fertilizers	PLO3 CLO6 C6	2
	c)	Explain INM and write down the principles of INM	PLO4 CLO6 C2	4
2.	a)	Identify of different field preparation techniques, such as conventional tillage and no-tillage, impact on long-term soil health, crop yield, and environmental sustainability? .	PLO1 CLO5 C3	5
	b)	Define soil fertility and product. A soil may be fertile but may not be productive - explain.	PLO4 CLO6 C1	3
3.	a)	Compare between broadcasting and transplanting methods of seed sowing.	PLO5 CLO4 C5	3
	b)	Identify the tillage practices affect the physical, chemical, and biological properties of soil, and what implications do these changes have for long-term soil health and crop productivity? .	PLO1 CLO5 C3	5
4	a)	Define fertilizer and make a list of nitrogenous fertilizers with chemical formula.	PLO4 CLO6 C6	3
	b)	Distinguish between broadcasting and deep placement of fertilizer.	PLO4 CLO6 C4	5
5.	a)	Outline the criteria did Amon (1954) lay down for the essentiality of elements in plants?	PLO3 CLO6 C2	1
	b)	Assess the work of Liebig and other nineteenth-century scientists contribute to the understanding of essential elements for plant growth?	PLO4 CLO6 C5	2
	c)	List down the primary nutrient elements and explain their deficiency symptoms.	PLO4 CLO6 C4	5