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Daffodil International University

Department of Agricultural Science

Faculty of Agricultural Sciences
Final Examination, Semester: Spring 2026
Course Code: 0813-2103 Course Title: Soil Science-I (Introductory Soil Science)
Level & Term: Level-2 Term-I Section: A&B Course Teacher: MFB&DMI
Time: 2 Hrs Full Marks: 40

"Split answering is strictly prohibited"

1	a)Classify soil forming processes.	PLO1 CLO1 C1	2
	b)Compare the laterization and podzolization soil forming processes.	PLO4 CLO1 C4	2
	c)Design a typical soil profile diagram and describe the master soil horizons.	PLO4 CLO1 C6&C2	4
2	a)Classify soil water and explain its importance.	PLO5 CLO2 C2	4
	b)Evaluate the role of soil temperature in crop production.	PLO4 CLO2 C5	4
3	a)Define soil pH. Classify soils based on pH values.	PLO2 CLO3 C1&C2	1+3
	b)Analyze the effect of soil pH on nutrient availability.	PLO5 CLO3 C5	4
4	a)Describe major functions and deficiency symptoms of N, P, and K.	PLO1 CLO5 C2	3
	b)Explain available forms and supplying sources of plant nutrients in soil.	PLO2 CLO5 C3	3
	c)Differentiate between soil fertility and soil productivity.	PLO3 CLO5 C5	2
5	a) Describe the physiological classification of bacteria based on their metabolic activities, with suitable examples.	PLO4 CLO4 C2	4
	b) Analyze the scope and applications of microbiology in agriculture, highlighting its role in sustainable crop production.	PLO6 CLO4 C5	2
	c) Evaluate the importance of fungi in agriculture, considering both beneficial and harmful effects with examples.	PLO7 CLO4 C6	2