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Daffodil International University

Department of Agricultural Science
Faculty of Agricultural Science
BSc. in Agricultural Science
Midterm Examination-Summer 2026

Course Code: 0813-2103 **Course Title: Soil Science-I (Introductory Soil Science)**
Level and Term: L2, T1 **Section: 252 (A, B & C)** **Course Teacher Initials: IHJ & DMI**
Time: 1 Hour 30 Minutes **Total Marks: 25**

Splitting any answer is strictly prohibited

1.	a)	Define the terms soil and soil science.	(PLO1, CLO1, C1)	1
	b)	List the major components of soil and briefly describe the components.	(PLO1, CLO1, C4)	3
2.	a)	Classify rocks on the basis of genesis (origin) and silica content.	(PLO1, CLO1, C2)	2
	b)	Illustrate the rock cycle with a neat, labelled schematic diagram.	(PLO1, CLO1, C2)	3
3.	a)	Define wilting point and permanent wilting point.	(PLO1, CLO2, C1)	2
	b)	Write the characteristics of different types of soil water and identify which type of soil water is available for plant uptake.	(PLO2, CLO2, C3)	4
4.	a)	Enlist the name of 12 textural classes of soil.	(PLO1, CLO2, C1)	2
	b)	Illustrate different types of soil structure and choose the suitable soil structure for crop production.	(PLO4, CLO2, C3)	3
5.	a)	"Particle density of a soil is always higher than bulk density" – explain with example.	(PLO2, CLO2, C3)	3
	b)	Develop a concept that shows the differences between particle and bulk density.	(PLO1, CLO2, C4)	2

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