



Daffodil International University

Department of Agricultural Science

Faculty of Agricultural Science

BSc. in Agricultural Science

Midterm Examination-Summer 2026

Course Code: 0813-2103

Level and Term: L2, T1

Time: 1 Hour 30 Minutes

Course Title: Soil Science-I (Introductory Soil Science)

Section: 252 (A, B & C)

Course Teacher Initials: IHJ & DMI

Total Marks: 25

Splitting any answer is strictly prohibited

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| 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 |