



Daffodil International University
Department of Agricultural Science
Faculty of Health & Life Sciences
Mid-term Examination, Spring 2026

Course Code: 0813-2103

Section: A&B

Full Marks: 25

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

Level-2 Term-I

Teacher's Initial: MFB&DMI

Time: 1 Hour 30 Minutes

"Split answering is strictly prohibited"

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| 1. | a) Define the terms soil and soil science. | CLO1PLOC1 | 2 |
| | b) List the major components of soil and briefly describe the role of liquid phase and gaseous phase of soil. | CLO2PLOC2&C3 | 3 |
| 2. | a) Classify rocks on the basis of genesis (origin) and silica content. | CLO1PLOC2 | 2 |
| | b) Describe the rock cycle with a neat, labelled schematic diagram. | CLO1PLOC3 | 3 |
| 3. | a) Define rock and mineral. | CLO2PLOC1 | 2 |
| | b) Classify minerals with suitable examples on the basis of: | | |
| | i) Amount of occurrence ii) Mode of origin | CLO2PLOC2 | 3 |
| | iii) Specific gravity iv) Chemical composition | | |
| 4. | a) Define weathering and list the agents of weathering. | CLO1PLOC1&C2 | 2 |
| | b) Analyze the effects of temperature and water as agents of physical weathering. | CLO1PLOC4 | 3 |
| 5. | a) Analyze Jenny's soil forming equation to explain the relative role of different soil forming factors. | CLO1PLOC4 | 2 |
| | b) Describe the role of climate and biosphere as the active soil forming factor. | CLO1PLOC2 | 3 |