



Daffodil International University
Department of Agricultural Science
Faculty of Agricultural Science
Final Examination, Spring 2026

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

Course Title: Agronomy-I (Principles of Agronomy)
Level: 1-Term: 1
Teacher's Initial: MTA
Time: 2 Hours

"Split answering is strictly prohibited"

- | | | | |
|----|---|--------------|---|
| 1. | a) List down the limitations of crop rotation under Bangladesh conditions. | PLO1 CLO6 C1 | 3 |
| | b) Analyze the differences between soil fertility and soil productivity with suitable examples. | PLO2 CLO6 C4 | 5 |
| 2. | a) Evaluate the characteristics of an ideal <u>tilth</u> and justify their importance for crop production. | PLO4 CLO5 C5 | 5 |
| | b) Explain the determinants of ploughing. | PLO4 CLO5 C2 | 3 |
| 3. | a) Define biofertilizers and integrated nutrient management (INM). | PLO1 CLO5 C1 | 3 |
| | b) Illustrate how biofertilizers and integrated nutrient management (INM) improve crop production with suitable examples. | PLO3 CLO5 C3 | 5 |
| 4. | a) Illustrate the use of seedling raising and transplanting practices in crop establishment. | PLO4 CLO3 C3 | 5 |
| | b) Write down the 5 Nitrogenous fertilizer names with their chemical formula and nutrient percentage. | PLO1 CLO6 C2 | 3 |
| 5. | a) Develop a comprehensive classification of plant nutrients by categorizing macro and micronutrients along with their available forms. | PLO1 CLO6 C6 | 4 |
| | b) Compare and analyze the roles and deficiency symptoms of nitrogen and potassium in plant growth. | PLO1 CLO6 C4 | 4 |