



Daffodil International University
Department of Agricultural Science
Faculty of Agriculture Sciences
Mid-term Examination, Fall 2020

Course Code: 0814-1205

Course Title: Agricultural Chemistry -I (Fertilizers, Agro Chemicals & Environmental Chemistry)

Section: 261 All

Level-Term: L-1, T-3

Teacher's Initial: MSA

Full Marks: 25

Time: 1 Hour 30 Minutes

"Split answering is strictly prohibited"

1. a) Define colloids. Mention the applications of colloids with brief descriptions. (PLO1,CLO1,C1) 3
b) Define plant nutrients. Enlist the name of macronutrient. (PLO1,CLO1,C1) 2
2. A farmer notices that his crop grows well when the soil has enough nutrients and water. However, he wants to know how these nutrients enter the plant and reach different parts of it. Explain the full process of nutrient uptake by plant roots with suitable diagram. (PLO1,CLO2,C3) 5
3. A young farmer wants to control crop pests using either biopesticides or synthetic pesticides. Describe both types and explain when each would be suitable, with examples. (PLO1,CLO3,C3) 5
4. Pesticides have been used for a long time to protect crops from pests. Over time, different types of pesticides have been developed. Define pesticides, briefly describe their history, analyze the toxicity of pesticides. (PLO1,CLO3,C4)
5. a) A pesticide can be prepared in different forms for easy and effective use. Describe any two pesticide formulations: one solid and one liquid, with suitable examples. (PLO1,CLO4,C2)
b) Why do we add inert materials to the formulation? (PLO1,CLO4,C2)