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Daffodil International University

Department of Agricultural Science

Faculty of Agricultural Sciences

Final Examination, Semester: Spring 2026

Course Code: 0815-1105 Course Title: Biochemistry-I (General Biochemistry)

Level & Term: L-1, T-2 Section:A, B, C Course Teacher:DFB,DRH

Time: 2 Hrs Full Marks: 40

"Split answering is strictly prohibited"

1.	a). Define metabolites and explain their importance in living organisms	PLO1 CLO2 C1	2+3
	b). Classify metabolites and describe primary and secondary metabolites with examples	PLO1 CLO2 C2	
2	a). Explain characteristics and importance of secondary metabolites	PLO1 CLO3 C1	3+2+4
	b)Describe alkaloids,their Sources,and their pharmaceutical applications	PLO5 CLO4 C2	
	c) Define enzyme? Describe the different factors affect enzyme activity	PLO1 CLO2 C1,C2	
3	a)Explain importance of enzymes in industrial and agricultural applications	PLO2 CLO4 C1	2+2
	b)Describe the classification of enzayme with example	PLO1 CLO2 C2	
4	a)Explain the lock-and-key model with figure	PLO1 CLO1 C5	2+4
	b)Define protein? Explain the process of protein Synthesis step by step	PLO1 CLO2 C1	
5	a)Describe the central dogma in protein synthesis	PLO1 CLO1 C2	2+2+3
	b)Explain the structure and function of the ribosome in protein synthesis	PLO1 CLO1 C5	
	c)Define gene?Discuss the characteristics of the genetic code	PLO1 CLO1 C1 C3	
6	a)Describe the classification proteins based on functional,chemical nature and solubility	PLO1CLO2 C3	4+3+2
	b)Define peptide bond and explain the structure of proteins	PLO1 CLO1 C3	
	c)Describe the physical properties of amino acid	PLO1 CLO1 C1	