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Daffodil International University

Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Final Examination Summer 2026

Course Code: 0512-1105 | **Course Title: Basic Plant Science**
Level and Term: L1, T1 | **Section: 262A** | **Course Teacher Initials: SBN**
Time: 2 Hours | **Total Marks: 40**

Answer the following questions. **Marks**

1	(a)	Explain the term mycorrhiza. Construct the internal structure of a seed and its typical features.	[CLO1, PLO1, C2]	5
	(b)	Compare the key anatomical features between root and stem.	[CLO1, PLO1, C5]	3
2	(a)	Explain the significance of embryology in plant science?	[CLO2, PLO2, C2]	3
	(b)	Discuss the process of megasporogenesis in plants.	[CLO2, PLO2, C6]	5
3	(a)	Define plant disease. Describe the symptoms of rice tungro disease.	[CLO2, PLO2, C2]	4
	(b)	Recommend how plant diseases can be controlled.	[CLO5, PLO1, C5]	4
4	(a)	Discuss the advantage and disadvantage of cross pollination.	[CLO2, PLO2, C6]	4
	(b)	Difference between self and cross pollination.	[CLO2, PLO2, C2]	4
5	(a)	Justify, why medicines derived from plants are better than synthetic pharmaceuticals?	[CLO4, PLO1, C5]	3
	(b)	Make a list of major phytochemicals and their functions in treating health issues.	[CLO4, PLO1, C6]	5