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Daffodil International University

Department of Agricultural Science
Faculty of Agriculture Science
BSc. in Agricultural Science
Final Examination-Summer 2026

Course Code: 0821-1201 **Course Title:** Principles of agroforestry
Level and Term: 1-2 **Section: A,B & C** **Course Teacher Initials: DMM, MSJ, MGJH**
Time: 2 hours **Total Marks: 40**

Splitting any answer is strictly prohibited

				Marks
1	(a)	How do you differentiate Alley cropping and Taungya system? Write down the benefits of Shifting cultivation.	CLO3, PLO1 C2	2+2
	(b)	Explain the suitability of Alley cropping for multiple productivity in the same unit of land. Name the suitable tree-crop combination for Alley cropping system.	CLO3, PLO1 C2	2+2
2	(a)	Point out both positive and negative effects involve in Tree – crop interface (TCI) and Tree – animal interface (TAI).	CLO3, PLO1 C1	2+2
	(b)	Provide 'nutrient cycling' diagram in TCI and 'positive effects' involved in TAI.	CLO3, PLO1 C3	4
3	(a)	Explain 'Pruning', 'Crown reduction,' and 'Coppicing' practices for management of agroforestry system.	CLO6, PLO1 C3	2+1+1
	(b)	Briefly describe the techniques of Natural Tree Regeneration (NTR) used in agroforestry system and write down the ecological and environmental benefits of tree regeneration.	CLO4, PLO1 C3	4
4	(a)	Identify the suitability of SALT in hilly areas and discuss the traditional cropland agroforestry practices in Bangladesh.	CLO5, PLO1 C4	4
	(b)	Describe the layer's homestead agroforestry practices with figure. Explain the economic importance of homestead agroforestry.	CLO5, PLO1 C5	4
5	(a)	Write down the name of some timber and non-timber forest products (NTFPs) found in agroforestry systems and list down harvesting and processing methods of agroforestry product.	CLO6, PLO1 C1	4
	(b)	Show the marketing channels of agroforestry product and the challenges of agroforestry product marketing. Explain the basic concept of land equivalent ratio (LER).	CLO5, PLO1 C3	4

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