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Daffodil International University

Faculty of Science & Information Technology

Department of Software Engineering

Midterm Examination, Spring 2025; Course Code: SE 113

Course Title: Introduction to Software Engineering

Sections & Teachers: A, B, C, D, E, F, G, H, I, J, K, L, M & SS, MKS, NS, KR, LA, SA

Time: 1:30 Hrs **Marks: 25**

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	*a)*	**Explain** which characteristics are common in a high quality software with reasons.	[Marks-4]	CLO-1 *Level-2*
	b)	Briefly **discuss** the basic responsibilities of a software engineer that are essential to develop software.	[Marks-4]	
	c)	**Predict** an appropriate career that you may like to have in near future with reasons.	[Marks-3]	
	d)	**Distinguish** between plan-driven and agile processes	[Marks-3]	
	e)	**Differentiate** between the waterfall model and incremental model with examples.	[Marks-4]	
2.	*a)*	The upcoming software project to serve the Non Residential Bangladeshi citizens would be very time critical as well as hard to be satisfactory because of high variety of scopes – some of which are still not clear. As the foreign ministry is really eager to complete the project with high satisfaction of all the stakes which is a bit risky, hence the ministry likes to provide flexibility to the development team with budget and working environment. **Determine** a related Software Development Life Cycle model for the above-mentioned issues.	[Marks-3]	CLO-2 *Level-3*
	b)	**Derive** a SDLC model with each phase that relate the suitability for case given in scenario 2.a)	[Marks-4]	