



**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. <b>Determine</b> 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]	