

International Islamic University Chittagong (IIUC)
Department of Computer Science and Engineering
6th Semester, Mid Term Examination

Program: B.Sc in CSE
Course Code: CSE-3637
Full Marks: 30

Semester: Autumn 2023
Course Title: Software Engineering
Time: 1 hours 30 minutes

Answer the Following Three (3) Questions

				CLO	DL
1.	(a)	What is a framework? What programming languages are you familiar with?	02	CLO1	C1
	(b)	Describe the natures of software. What do you mean by "The conceptualization of the varied nature of software"?	03	CLO1	C2
	(c)	List down some segments of software cost. Do you think software maintenance is more costly than build a new software? Justify your answer.	05	CLO2	C1
2.	(a)	Describe the Software Development Process in Brief with diagram.	03	CLO2	C2
	(b)	What is "Agile" software development and what are your thoughts on it?	02	CLO3	C3
	(c)	What are your thoughts on software testing? Let's consider that you are tasked to fix a difficult bug in a large application. How do you debug the issue?	05	CLO3	C2
3.	(a)	Why do we need software requirements to develop a software? Describe about functional and non functional requirements.	4	CLO1	C4
	(b)	Briefly describe the techniques for the unambiguous specification of software. Can you describe the following meaning? function Search (X: in INTEGER_ARRAY ; Key: INTEGER) return INTEGER ; Pre: exists i in X'FIRST..X'LAST: X(i) = Key Post: X" (Search (X, Key)) = Key and X = X"	6	CLO4	C1
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3.	(a)	What are the two main challenges that software firm need to face? How to overcome it?	05	CLO1	C4
	(b)	Describe about your last project you worked on, including any obstacles that you faced and your contributions to its success.	05	CLO4	C1

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