Department of Computer Science and Engineering National Institute of Technology Agartala

Assignment 1, April 2024, Session: Even Semester, 2023-24

[Programme: B. Tech.] [Semester: Six]
Course Title: Software Engineering Deadline: 22-Apr-

Course Code: UCS06B31   **2024**

Instructions:	1. All the questions are compulsory.
	2. Write all the answers on A4 size pages.
	3. Write question before answering the respective question.
	4. Try to write answers sequence wise.
	5. Write input and output in all the questions related to programming.
	6. Student Name and Reg. No./Enrol. No. must be clearly written on the first page.

Q. No.	Questions
1	Differentiate between coupling and cohesion.
2	Discuss requirement gathering techniques for office automation of the CSE Department, NIT Agartala.
3	"Identifying different types of risks at the early stage of a software project is very important"-Justify.
4	Why there can be more than one critical path in a software project?
5	Why understanding software design is significant? Discuss in detail.
6	Compare different types of COCOMO models.
7	What is structured analysis of a software project? If we want to make a structured analysis of our MIS system, what are the necessary steps that we need to take?
8	How the concept of object orientation is used in the SDLC?
9	List the differences between GUI and text-based user interface. What are the characteristics of a good user interface?
10	Explain the techniques to review the codes of a software.
11	How to test a program? Why test cases are important?
12	Analyze different types of testing techniques.
13	What are the reliability metrics of a software product? Discuss in detail.
14	Discuss ISO 9000.
15	Why does maintenance take much effort? Explain software maintenance process models.