Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Winter Examinations 2022

Course: B. Tech.   **Branch :** Computer Science & Engineering   **Semester : VII**

Subject Code & Name: Software Engineering (BTCOC701)

Max Marks: 60   **Date:27.01.2023**   **Duration: 3 Hr.**

Instructions to the Students:
1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		**12**
A)	Describe incremental approach for software development.	(Understand)	6
B)	State characteristics of good software.	(Remember)	6
C)	Explain different task regions of spiral model with diagram.	(Apply)	6
Q.2	**Solve Any Two of the following.**		**12**
A)	State principles of Agile software development.	(Understand)	6
B)	Write note on Requirements validation.	(Apply)	6
C)	Discuss the structure of software requirements documents.	(Remember)	6
Q. 3	**Solve Any One of the following.**		**12**
A)	Discuss Structural models in UML.	(Understand)	6
B)	Illustrate event-driven modeling with sketch.	(Analyze)	6
C)	Discuss MVC Architectural pattern.	(Remember)	6
Q.4	**Solve Any Two of the following.**		**12**
A)	Write note on Open source development.	(Understand)	6
B)	Explain the process of Object-oriented design using UML.	(Apply)	6
C)	Describe essential elements of Design patterns.	(Remember)	6
Q. 5	**Solve Any One of the following.**		**12**
A)	Define software testing. Explain development testing in detail.	(Remember)	6
B)	Explain Test-driven development with diagram.	(Understand)	6
C)	Discuss issues related to safety and security in software development.	(Analyze)	6

*** End ***