

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Regular & Supplementary Winter Examination-2023 Course: B. Tech. Branch: CSE/CE Semester : V Subject Code & Name: BTCOC503 Software Engineering Max Marks: 60 Date:05-01-24 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)	What is Software Engineering Ethics? Explain ACM/IEEE code of ethics.	Remember	6
B)	Why requirements engineering considered as a critical stage of the software process? Discuss the three main activities involved in the requirements engineering process.	Understand	6
C)	Explain software process activities.	Understand	6
Q.2	Solve Any Two of the following.		12
A)	Explain refactoring and pair programming as agile development techniques.	Understand	6
B)	Discuss Functional and Non-Functional Requirements	Understand	6
C)	Explain requirements validation software process.	Understand	6
Q. 3	Solve Any Two of the following.		12
A)	What is System Modelling? Explain different types of System Models in brief.	Understand	6
B)	What are Architectural Patterns? Explain Layered Architecture Pattern with suitable diagram.	Understand	6
C)	Explain application architecture for Transaction Processing System with suitable diagram.	Understand	6
Q.4	Solve Any Two of the following.		12
A)	Write a note on Open-Source Development and Open-Source Licensing.	Understand	6
B)	Discuss Object Oriented Design using UML in brief.	Understand	6
C)	Compare Software Inspection and Testing.	Understand	6

Q. 5	Solve Any Two of the following.		12
A)	Discuss Component testing in detail	Understand	6
B)	What is Test-driven development (TDD)? Explain TDD process activities.	Understand	6
C)	Write a note on User Testing	Understand	6
*** End ***			

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