

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Supplementary Examination – Summer 2024 Course: B. Tech. Branch : Electronics and Computer Engineering / ECSE Semester : V Subject Code & Name: BTECPE503D Software Engineering Max Marks: 60 Date: 05/07/2024 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)	List and Explain any four software engineering code of ethics.		6
B)	With the neat diagram explain the activity model of insulin pump control system		6
C)	Explain the waterfall model with the help of a diagram,also state its advantages and disadvantages.		6
Q.2	Solve Any Two of the following.		12
A)	What is agile software model ? Explain extreme programming for agile development.		6
B)	Explain and compare functional and nonfunctional requirements in Software Engineering.		6
C)	Explain term Requirements Elicitation and Requirement Documentation.		6
Q. 3	Solve Any Two of the following.		12
A)	Explain in detail context model in system modelling.		6
B)	Draw an explain software architecture of an ATM system.		6
C)	Explain Model Driven Engineering.		6
Q.4	Solve Any Two of the following.		12
A)	Develop the design of the hospital management system to show the interaction between the data collection sub system and instruments that collect patient data.Use sequence diagram to show this interaction.		6

B)	What is open source development? Explain open source licensing.		6
C)	Design structural model for weather information system.		6
Q. 5	Solve Any Two of the following.		12
A)	What is the difference between validation and verification.		6
B)	Explain safety requirements and safety cases in software testing .		6
C)	What is software testing? and what is important of it?		6
	*** End ***		