DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplymentary_Summer_2023

Course: TY. B.Tech.Branch: Artificial Intelligence and Data Science.

Subject Code & Name: BTAIOE505C Software Engineering and Testing Sem:V

Max Marks: 60 Date:19/08/2023 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.

*******END*******

	4. Assume suitable data wherever necessary and mention it clearly.		
		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		
A)	What are Software myths? Explain its types in details.	(BT1/CO1)	6
B)	Explain generic View of Software Engineering with suitable diagram.	(BT3/CO1)	6
C)	Discuss requirements engineering activities with suitable diagram.	(BT2/CO1)	6
Q.2	Solve Any Two of the following.		
A)	Explain concepts of software design attributes in detail.	(BT2/CO2)	6
B)	What is Software Architecture? Explain with taxonomy.	(BT4/CO2)	6
C)	Define software engineering? Explain Software Development Life Cycle with suitable diagram	(BT3/CO2)	6
Q. 3	Solve Any Two of the following.		
A)	Explain Software Testing Life Cycle with suitable diagram.	(BT1/CO3)	6
B)	Define a) Quality b) Quality Control c) Quality assurance & d) Differentiate Validation & Verification.	(BT3/CO3)	6
C)	Differentiate black box & white box testing. Explain challenges in white box testing.	(BT4/CO3)	6
Q.4	Solve Any Two of the following.		
A)	What is Integration testing? Explain any three approach of Integration Testing.	(BT2/CO4)	6
B)	Define system testing. Explain a) Load testing b) Stress testing c) Performance testing.	(BT2/CO4)	6
C)	Differentiate a) Test case & Test scenario b) Functional & Non-functional testing.	(BT3/CO4)	6
Q. 5	Solve Any Two of the following.		
A)	What is performance testing? Explain 1) Throughput 2) Response time 3) Latency	(BT2/CO5)	6
B)	Describe Internationalization testing with its aspect & benefits.	(BT2/CO5)	6
C)	Explain Performance testing process in detail.	(BT3/CO5)	6