Code No: 125EM JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, September - 2021 SOFTWARE ENGINEERING (Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	Compare and contrast waterfall model and spiral model. Explain the Unified process. Defend importance of the unified process.	7+8]
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2.	What is software process? Appraise the need of software process improvem Discuss capability maturity models.	ent? [15]
3.a)	What are the various tasks in requirements engineering? Illustrate with an example t task of collecting requirements at various steps.	he
b)		8+7]
4.a)	Illustrate on SRD (Software Requirements Document).	
b)	· · · · · · · · · · · · · · · · · · ·	7+8]
5.a)	What is Software architecture? Analyse various architectural styles and patterns.	
b)	Illustrate with neat diagrams the process of mapping data - flow into a softw	vare 7+8]
6.a)	Explain design process and various design quality guidelines.	
b)	Explain various types of cohesion and coupling. List in the order of level of cohesio	n
-)		7+8]
7.a)	Explain the strategic approaches to software testing. Why testing is difficult? Elabor on how to overcome.	rate
b)	Give an overview of black-box testing strategy. Explain Equivalence partitioning an	id 7+8]
8.a) b)	What is software quality? Explain various steps for software quality assurance. What are various risks associated with software? Explain steps to mitigate monitor a manage risks.	and 7+8]

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