O.P.Code: 20CI0605

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H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech III Year I Semester Regular & Supplementary Examinations February-2024 SOFTWARE ENGINEERING & TESTING

(Computer Science & Information technology)

Tim	٠.	(Computer Science & Information technology) 3 Hours	Morr	Monte	60
1 1111	e:	(Answer all Five Units $5 \times 12 = 60$ Marks)	wax.	Mark	s: ou
		UNIT-I			
1	a	Explain in detail the following software metrics with example.	CO ₁	L2	6 M
	_	i) Size metric. ii) Token Count.			
	b	Compare iterative enhancement model and evolutionary process model. OR	CO1	L2	6M
2	a	Describe the rapid application development (RAD) model. Discuss each phase in detail.	CO1	L5	6M
	b	Is software metrics required in software engineering. Why do we really need metrics in software?	CO1	L1	6M
		UNIT-II			
3	a	What is COCOMO Model? Explain Basic COCOMO model in detail.	CO ₂	L1	6M
		Differentiate functional and non-functional requirements.	CO ₂	L2	6M
		OR			
4	a	Explain the Putnam resource allocation model. What are the limitations of this model?	CO2	L3	6M
	b	List the characteristics of good SRS document and their requirements. UNIT-III	CO2	L2	6M
5	a	What is module cohesion? Classify different type of module cohesion.	CO3	L4	6M
		Demonstrate relationship between module cohesion and module	CO ₃	L1	6 M
		coupling for process of good software design.			
		OR			
6	a	Illustrate software design framework.	CO ₃	L2	6M
	b	Discuss the difference between object oriented designs and function oriented design.	CO3	L6	6M
		UNIT-IV			
7	a	Explain the boundary value analysis testing techniques with the help of an example.	CO4	L2	6M
	b	Explain decision table based testing technique. OR	CO4	L5	6M
8	a	Simplify data flow testing technique with an example.	CO ₄	L2	6M
	b	What are the objectives of testing? Why is the psychology of a testing person important?	CO4	L1	6M
		UNIT-V			
9	a	Differentiate between re-engineering and new development.	CO5	L2	6M
		What are the appropriate reverse engineering tools? Discuss any two tools in detail.	CO5	L1	6M
		OR			
10	a	What is reverse engineering? Discuss levels of reverse engineering.	CO5	L6	6M
	b	Compare New software development and Re-engineering. *** END ***	CO5	L4	6M

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