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VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS) 4

B.Tech. II Year II Semester Regular Examinations, July 2024

SOFTWARE ENGINEERING

(Common to CSE, IT, CSE-AIML, CSE-DS, CSE-IoT and AIDS)

Time: 3 hours		Max. Marks: 60			
	ALL questions in PART-A.				
Answer	any ONE question from each unit in PART-B.				
	PART-A		EVO	10N#	
Define Software Engineering				=10M BL-1	
	Define Software Engineering.			BL-1 BL-2	
	Differentiate Functional and non-functional requirements			BL-2 BL-2	
	ist and explain the main components of a use case diagram?			BL-2	
	Describe the purpose of verification and validation.			BL-1	
je) L	ist out the Software Risks.	2M	CO-3	DL-1	
PART-B			5X10=50M		
UNIT-I			57210		
σ	a) Explain Different types of Software Myths.	5M	CO-1	BL-2	
	b) Software engineering a layered technology- Justify your answer with a suitable	5M	CO-1	BL-2	
	explanation.				
	OR				
2.	Discuss the software characteristics and also explain the changing nature of Software.	10M	CO-1	BL-2	
۷.	Discuss the software characteristics and also explain the same				
_/	UNIT-II	14		D1 0	
(3)	a) Describe the waterfall model with neat diagram. List the advantages and disadvantages	7M	CO-2	BL-2	
X	of waterfall model.		aa a	DI 2	
	b) Differentiate Forward and reverse engineering.	3M	CO-2	BL-3	
	OR	1016	00.2	DI 2	
4.	Explain Software requirements document with example.	10M	CO-2	BL-2	
	UNIT-III				
		5M	CO-3	BL-3	
5.	a) Differentiate State chart Diagram and Activity Diagram.	5 M	CO-3	BL-2	
^	b) Explain Design Process in Software engineering. OR				
_	Describe the importance of Class diagrams and explain the components of class diagram.	10M	CO-3	BL-3	
(6)	Describe the importance of Class diagrams and explain the compensation of Class diagrams and explain the class diagram and expl				
	list out the attributes and specify their relationship between the stasses				
	Customer, BankTransaction				
	UNIT-IV				
-	The second White Roy testing	5M	CO-4		
7.	- " 1 1 1 1 C Green maintenance	5M	CO-4	BL-2	
	b) Describe the Metrics for software maintenance. OR				
	Illustrate different Software testing Strategies.	10M	CO-4	BL-2	
(8.)	mustrate different software testing strategies.				
1	UNIT-V	es -	00.4	DI O	
	n ni	5M	CO-5		
(1)	- 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5M	CO-	5 BL-3	
	b) Differentiate Reactive vs. Proactive risk strategies. OR	103.5	00	5 DY 2	
10	Discuss Software Quality Assurance, explain activities in detail.	10M	CO-	5 BL-2	
10.	Discuss bottware Quality Assurance, explain detriction				
