Code No: P18ITT03

R18

HALL TICKET NUMBER

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)
II B.TECH I SEMESTER END REGULAR/SUPPLEMENTARY EXAMINATIONS, JAN - 2023
SOFTWARE ENGINEERING
(CSIT Branch)

Time: 3 hours Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (5X2=10M)

Q.No.		Questions	Marks	CO	KL
1	a)	Define software engineering?	[2M]	1	
	b)	Explain modeling framework activity in the RAD model?	[2M]	2	
	c)	What is meant by Requirement management?	[2M]	3	
	d)	What are different Design Patterns?	[2M]	4	
	e)	Distinguish between verification and validation.	[2M]	5	

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.No.		Questions	Marks	CO	KL
		UNIT-I			
2.	a)	Explain Management myths along with realities in brief.	[5M]	1	
	b)	Software Engineering is a layered technology. Explain it in detail?	[5M]	1	
		OR			
3.	a)	What do you mean by Process Framework? Explain all the activities in relation to Process Framework.	[5M]	1	
	b)	To determine the current state of process maturity, SEI uses an assessment that results in a five point grading scheme (CMMI). Explain.	[5M]	1	
		UNIT-II			
4.	a)	Explain classic life-cycle model and write any two advantages and disadvantages	[5M]	2	
	b)	Compare the user requirements and system requirements with suitable examples?	[5M]	2	
		OR			
5.	a)	Which model will be used to develop the project when risk is high and explain in detail?	[5M]	2	
	b)	Write a short note on requirements engineering phases?	[5M]	2	
		UNIT-III			
6.	a)	Explain the feasibility studies. What are the outcomes? Does it have either implicit or explicit effects on software requirement collection?	[5M]	3	
	b)	What is requirement engineering? State its process and explain requirements elicitation Problems.	[5M]	3	
		OR			
7.	a)	Why is traceability an important aspect of requirement management? Why	[5M]	3	
	b)	Discuss about Software Metrics and Measurements in brief.	[5M]	3	
		UNIT-IV			

8.	a)	What are different types of architectural styles exist for software and explain anyone of them in detail.	[5M]	4	
	b)	Explain the process of design evolution in detail.	[5M]	4	
OR					
9.	a)	Briefly explain the characteristics of good software design.	[5M]	4	
	b)	Compare and contrast the object oriented design and structural design.	[5M]	4	
UNIT-V					
10.	a)	Explain the testing strategy for conventional software in brief?	[5M]	5	
	b)	Discuss about Statistical Software quality Assurance?	[5M]	5	
OR					
11.	a)	Differentiate White box testing with Black box testing.	[5M]	5	
	b)	Discuss about formal technical reviews in brief.	[5M]	5	

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