Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada
(Autonomous)
III /IV B Tech Degree Examinations(April/2022)
Fifth Semester
Department of Information Technology
20IT5302-Software Engineering

VR20

Time:3Hrs	**MODEL QUESTION PAPER**		Max Marks:70	

Part – A is Compulsory
Answer one (01) question from each unit of Part – B
Answers to any single question or its part shall be written at one place only

Cognitive Levels(K): K1-Remember;K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create

Q. No		Question	Marks	Course Outcome	Cog. Level
		Part - A	**10X1=10M**		
1	a	Define Process.	1M	CO3	K1
	b	Identify few advantages of CMMI	1M	CO1	K2
	c	Why agile process is more advantageous?	1M	CO3	K4
	d	Define Requirement Specification.	1M	CO2	K1
	e	List few Non-Functional requirements.	1M	CO2	K2
	f	Define software metric.	1M	CO3	K1
	g	What is the difference between testing and debugging?	1M	CO3	K2
	h	What is verification and validation?	1M	CO3	K2
	I	Interpret the importance of Interaction diagram.	1M	CO4	K1
	j	What are deployment diagrams?	1M	CO4	K2
		Part - B	**4X15 =60M**		
		UNIT - I			
2	a	Explicate which application is more suitable for prescriptive process model, along with the features of prescriptive process models?	7M	CO3	K4
	b	Elucidate different software myths with respect to management, customer, and practitioner with neat case studies.	8M	CO1	K2
		(OR)			
3	a	Explain concurrent agile development model. Discuss at least one case study where this model is best suitable.	8M	CO3	K3
	b	What is software? Explain all its characteristics with an example	7M	CO1	K2
		UNIT - II			
4	a	Imagine, what could be the consequence in the software development process, if requirements negotiation and requirements validation is not properly organized. Why negotiation and validation is much important .Discuss with case studies.	10M	CO2	K4
	b	Illustrate the design modeling concepts with any examples?	5M	CO4	K2
		(OR)			

5	a	Construct and build the analysis model for the customer care solution. Discuss the challenges that are to be considered during the deployment time?	8M	CO4	K4
	b	Write short notes on with suitable examples. i. Design Quality ii. Design Concepts iii Use cases.	7M	CO4	K2
UNIT - III					
6	a	Explain the concept of architectural styles and patterns	5M	CO2	K2
	b	Distinguish the use of activity diagram and state diagram. give activity and state diagrams for the development of the mobile application for the CCTV monitoring.	10M	CO4	K6
(OR)					
7	a	Ideally no software model is suitable for any application fully. Will you agree with the statement? justify your answer with suitable examples.	8M	CO4	K4
	b	Draw and explain activity diagram for a student joining in the university?	7M	CO4	K6
UNIT - IV					
8	a	Compare and contrast black box testing with white box testing	8M	CO3	K4
	b	Why software testing is so important? List and explain the test strategies for conventional software?	7M	CO3	K4
(OR)					
9	a	What is the significance of basis path testing and explain control structure testing.	6M	CO3	K2
	b	Outline the concept of the art of debugging.	9M	CO3	K2