Course Code: 1950520   Roll No: MLRS- R19

MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
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III B.Tech I Sem Supply End Examination, December 2022
Software Engineering
(CSE/IT)

Time: 3 Hours.   Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.
2. In Part – A, answer all questions which carries 20 marks.
3. In Part – B, answer any one question from each unit.
    Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

1.	a)	Define software engineering.	2M	CO1	BL1
	b)	Summarize the software myths.	2M	CO1	BL2
	c)	Why understanding the requirements is difficult?	2M	CO2	BL2
	d)	Name any four system models.	2M	CO2	BL1
	e)	Suggest the characteristics that serve as a guide for the evaluation of a good design.	2M	CO3	BL2
	f)	How will the architectural design be evaluated?	2M	CO3	BL2
	g)	Differentiate verification and validation.	2M	CO4	BL2
	h)	What are the steps of an effective measurement process?	2M	CO4	BL2
	i)	List out the guidelines to be applied for collecting software metrics.	2M	CO5	BL1
	j)	How to assess the consequences of a risk?	2M	CO5	BL2

PART- B

(10*5 Marks = 50 Marks)

2	a)	Examine the activities of a generic process framework for software engineering.	5M	CO1	BL4
	b)	Show and discuss the approach followed by incremental model.	5M	CO1	BL2

OR

3	a)	Explain various levels of capability maturity model integration	5M	CO1	BL2
	b)	List out and analyze the activities performed in various phases of the unified process.	5M	CO1	BL4

4	a)	Distinguish the functional and non-functional requirements.	5M	CO2	BL2
	b)	Interpret the steps involved in creating a behavioral model.	5M	CO2	BL3

OR

5	a)	Outline and elucidate the content of software requirements document	5M	CO2	BL2
	b)	Inspect the guidelines to be followed for requirements elicitation.	5M	CO2	BL4
6	a)	Describe the basic concepts of design process and design quality.	5M	CO3	BL2
	b)	Elucidate the approach for execution of architectural styles and patterns.	5M	CO3	BL3

OR

7	a)	Analyze the work involved in creating an architectural design.	5M	CO3	BL4
	b)	Demonstrate the usage of sequence diagrams and collaboration diagrams.	5M	CO3	BL2
8	a)	Diagnose the techniques for the implementation of black-box testing.	5M	CO4	BL4
	b)	List out and evaluate different metrics for the analysis model.	5M	CO4	BL3

OR

9	a)	How does an organization combine metrics that come from different individuals or projects? Discuss.	5M	CO4	BL3
	b)	Illustrate various system tests that are worthwhile for software-based systems	5M	CO4	BL2
10	a)	Compare the reactive risk strategies with proactive risk strategies	5M	CO5	BL2
	b)	Elucidate the role of formal technical reviews to achieve quality management	5M	CO5	BL3

OR

11	a)	Explain the basic concepts related to software quality assurance.	5M	CO5	BL2
	b)	What can you do to mitigate a risk? Inspect the procedure involved in RMMM plan.	5M	CO5	BL4

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CO - Course Outcome   **BL - Blooms Taxonomy Levels**