



# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi &amp; Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade &amp; Recognized Under Section 2(f) &amp; 12(B) of the UGC act, 1956

III B.Tech I Sem Supply End Examination, July 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)	What are generic process events?	2M	C01	1
b)	Write limitations of Prototyping model.	2M	C01	5
c)	Give examples of functional requirements.	2M	C02	3
d)	What are problems with natural language?	2M	C02	2
e)	Define remote procedure call style.	2M	C03	4
f)	List symbols used in Usecase diagrams.	2M	C03	3
g)	What is white-box testing?	2M	C04	2
h)	Explain McCall's quality factors.	2M	C04	1
i)	Discuss about RMMM plan.	2M	C05	5
j)	Define SQA.	2M	C05	3

### PART- B

(10\*5 Marks = 50 Marks)

2 a)	What are phases of the United process model? Explain.	5M	C01	1
b)	Describe the evolving role of software.	5M	C01	5

OR

3	Distinguish evolutionary process models with their merits and demerits.	10M	C01	4
4 a)	Explain about domain requirements with examples.	5M	C02	1
b)	What is Feasibility study? Explain with example	5M	C02	2

OR

5	Discuss about state machine model and state charts with microwave oven application.	10M	C02	4
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6	a) Explain about dimensions of the design model.	5M	C03	1
	b) Define sequence diagram. Describe with ATM example.	5M	C03	3
<b>OR</b>				
7	Discuss in detail about architectural design steps with suitable examples.	10M	C03	5
8	a) What are test strategies for object-oriented software? Explain.	5M	C04	3
	b) Explain about software quality.	5M	C04	4
<b>OR</b>				
9	Explain about metrics for source code and testing.	10M	C04	2
10	a) Discuss about software reviews.	5M	C05	3
	b) Define risk table. Explain about developing a risk table.	5M	C05	4
<b>OR</b>				
11	Discuss in detail about formal technical reviews in SQA.	10M	C05	1

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