6 M

#### III B.Tech - I Semester – Regular Examinations – JANUARY 2022

## SOFTWARE ENGINEERING (COMPUTER SCIENCE & ENGINEERING)

#### Duration: 3 hours

Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.

- 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
- 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
- 4. All parts of Question paper must be answered in one place

# PART – A

- 1. a) Write briefly about CMMI.
  - b) State about requirements gathering.
  - c) What do you know about design engineering?
  - d) Define unit testing.
  - e) Compare the Reactive vs Proactive Risk Strategies.

# PART – B UNIT – I

# 2. a) Explain with neat diagram the prototyping model for 6 M software development that are applied throughout the software process.

b) Analyze the manager, customer and practitioner's 6 M myths.

# OR

- a) Define Software Engineering. Write the characteristics 6 M of good software.
  - b) Explain Unified Process Model.

# <u>UNIT – II</u>

4.	a)	Define	Requirement	Engineering.	Explain	different	6 M
		tasks in	Requirement H				

b) Explain scenario-based modeling with an example. 6 M

## OR

- a) How can you validate the requirements? Explain. 6 M
- 5. b) What is an analysis package and how might it be used? 6 M

## UNIT-III

6.	a)	Organize the design concepts in design engineering.		
	b)	What are the golden rules for performing user interface	6 M	
		design? Explain.		

#### OR

7.

a) Explain design elements.	6 M
b) What is an architecture style? Explain.	6 M

# $\underline{UNIT} - IV$

8.	a)	How can you perform integration testing? Explain.	6 M
	b)	Discuss black-box testing strategies.	6 M
		OR	
9.	a)	What is validation testing? Explain.	6 M
	b)	How can you perform white box testing? Explain.	6 M

# $\underline{UNIT} - \underline{V}$

10.	a)	How can you identify the risk? Explain.				
	b)	Identify the elements of software quality assurance.	6 M			
	OR					
11.	a)	Explain about risk projection.	6 M			
	b)	What is formal technical reviews? Explain.	6 M			