CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–II–Semester End Examinations (Supply) - February- 2024
SOFTWARE ENGINEERING
(Common to CSE, IT)

[Time: 3 Hours]   [Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A   (20 Marks)

1. a)	Distinguish between personal and team process models.	[2M]
b)	List evolutionary process models.	[2M]
c)	Differentiate between user requirement and system requirement.	[2M]
d)	Discuss about requirements validation in brief.	[2M]
e)	List the guidelines for data design.	[2M]
f)	What are the goals of the design process?	[2M]
g)	Define Black Box testing strategy.	[2M]
h)	List the metrics for source code.	[2M]
i)	What are the metrics for software quality?	[2M]
j)	Define Risk Refinement.	[2M]

PART-B   (50 Marks)

2.a)	What is legacy software? Briefly explain its impact in software engineering.	[5M]
b)	What is CMMMI? Explain.	[5M]

OR

3.a)	Discuss in brief about the Waterfall model.	[5M]
b)	Explain process patterns and process assessment.	[5M]

4.a)	Describe the structure of Software Requirements document.	[5M]
b)	Describe the process of Requirements Management.	[5M]

OR

5.	Give an overview of various steps in requirements engineering process.	[10M]

6.a)	What are building blocks of the UML? Explain.	[5M]
b)	Write a short note on class diagrams.	[5M]

OR

7.a)	Discuss about Architectural Design in brief.	[5M]
b)	Write a short note on Component Diagrams.	[5M]

8.a)	What are the metrics for Analysis Model? Explain.	[5M]
b)	Write a short note on system testing.	[5M]

OR

9.a)	Explain about the art of Debugging	[5M]
b)	What is Integration testing? Explain in detail.	[5M]

10.	Illustrate various Metrics for Process and Products.	[10M]

OR

11.	What are various risks associated with software? Explain steps to Mitigate Monitor and Manage Risks.	[10M]

****