CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–I–Semester End Examinations (Supply) - December- 2025
SOFTWARE ENGINEERING
(AI&DS)

[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)	Write about Personal and Team process Models.	[2M]
b)	List Management myths.	[2M]
c)	What are Data models?	[2M]
d)	Distinguish Requirements elicitation and analysis.	[2M]
e)	Mention types of UML diagrams.	[2M]
f)	List the relationships used in class diagram.	[2M]
g)	Identify any three differences between validation testing and system testing.	[2M]
h)	List the metrics for source code.	[2M]
i)	Contrast reactive vs proactive risk strategies.	[2M]
j)	Define SQA.	[2M]

PART-B   (50 Marks)

2. Explain in detail about   [10M]
  i) Incremental process model.
  ii) Feasibility study.

OR

3. Elaborate Waterfall model in detail with a neat sketch.   [10M]

4. Examine Software Requirements Documents.   [10M]

OR

5. Explain briefly about Functional and non-Functional Requirements.   [10M]

6. Explain the conceptual model of UML.   [10M]

OR

7. Elaborate use case and class diagrams with related examples.   [10M]

8. Explain   [10M]
  i) white box testing and black box testing.
  ii) validation testing with an example.

OR

9. What is meant by Software Quality? Discuss about the Metrics for Analysis and design   [10M]
  Models.

10. Explain in detail about RMMM plan.   [10M]

OR

11. Discuss about the ISO 9000 quality standards.   [10M]

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