CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–I–Semester End Examinations (Supply) - December- 2024
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) Give the limitations of Spiral model.   [2M]
   b) Define Software myths.   [2M]
   c) What is the purpose of SRS?   [2M]
   d) Differentiate context model and behavioral model.   [2M]
   e) Define multiplicity.   [2M]
   f) How to represent the timeline of the object?   [2M]
   g) Define Validation Testing.   [2M]
   h) List out different metrics for assessing product quality. [2M]
   i) Define Software Reliability.   [2M]
   j) Why to conduct Software reviews?   [2M]

PART-B   (50 Marks)

2. Illustrate CMMI in detail with a neat sketch.   [10M]

OR

3. Explain Evolutionary Process models with a neat sketch. [10M]

4. Write Software Requirements Specification for Library Automation. [10M]

OR

5. Describe Requirements validation and management in detail. [10M]

6. Draw Class Diagram and Sequence diagram for ATM.   [10M]

OR

7. Explain Design Engineering in detail.   [10M]

8. What are the various types of errors detected in black-box testing and white box [10M]
   testing?

OR

9. Explain metrics for analysis and design model.   [10M]

10. Differentiate proactive and reactive risk strategies. [10M]

OR

11. Describe metrics for Software Quality.   [10M]

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