

Code No.: AD303PC

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**CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS**

**II-B.TECH-I-Semester End Examinations (Supply) - February- 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) List the disadvantages of Waterfall model. [2M]
- b) What are the advantages of layered technology for Software Engineering? [2M]
- c) List out the Non-functional requirements. [2M]
- d) What is economic feasibility? [2M]
- e) How collaboration is different from sequence? [2M]
- f) Define Actor. [2M]
- g) List out the metrics for maintenance. [2M]
- h) Define System Testing. [2M]
- i) What is software reliability? [2M]
- j) What is the importance of quality management? [2M]

PART-B

(50 Marks)

2. Summarize the Evolution of Software Engineering Methodologies. [10M]
- OR**
3. Explain the Unified Process model. [10M]
4. Write short note on Requirement Specification and Requirement Validation. [10M]
- OR**
5. Explain about Context model with an example. [10M]
6. Summarize the Design Principles of software engineering. [10M]
- OR**
7. Explain about Object Oriented Analysis and Design. [10M]
8. Compare the Black Box testing and White Box testing with an example. [10M]
- OR**
9. Describe metrics for analysis and design model. [10M]
10. Illustrate RMMM and RMMM plan in detail with a net sketch. [10M]
- OR**
11. Describe software reviews and formal technical reviews. [10M]
