

Code No.: CS405PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II-B.TECH-II-Semester End Examinations (Regular) - August- 2023
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) What is Software Development Life Cycle? [2M]
- b) What are the merits of incremental model? [2M]
- c) Explain data models. [2M]
- d) Distinguish between user requirements and system requirements. [2M]
- e) Explain about object constraint language. [2M]
- f) List the principles of a software design. [2M]
- g) What is meant by smoke testing? [2M]
- h) List the metrics for Design model. [2M]
- i) What is SQA? [2M]
- j) Discuss about RMMM plan. [2M]

PART-B

(50 Marks)

2. Define process model. What are evolutionary process models? Explain in detail. [10M]

OR
- 3.a) Discuss an overview of unified process model. [5M]
- b) Explain about CMMI. [5M]
- 4.a) Discuss about the functional and non-functional requirements. [5M]
- b) Explain the requirements elicitation and analysis phases of the requirements engineering process. [5M]
- OR**
- 5.a) What are feasibility studies? Explain. [5M]
- b) Discuss in detail about structured methods. [5M]
- 6.a) Explain the fundamentals concepts of design process. [5M]
- b) Summarize the architectural styles and patterns. [5M]
- OR**
- 7.a) What is architecture? Why is architecture important? [5M]
- b) Explain about architectural design and interface design elements. [5M]
8. What is black box testing? What is boundary value Analysis? Explain the technique specifying rules and its usage with the help of an example. [10M]

OR
- 9.a) What is software testing? Explain about the system testing. [5M]
- b) What is meant by software quality? Explain the metrics for maintenance. [5M]

10. Explain the following:

- a) Risk projection
- b) Software reviews.

[5M]
[5M]

OR

11.a) Explain Software Risks.

- b) Discuss various methods for Risk Identification.

[5M]
[5M]
