

Code No.: R22IT733PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Regular) - December- 2025
SOFTWARE PROJECT MANAGEMENT
(Common for IT & CSD)

[Time: 3 Hours]

[Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 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

(10 Marks)

1. a) Mention two benefits of peer inspections. [1M]
- b) Mention two methods to reduce software product size. [1M]
- c) State any two limitations of conventional software management. [1M]
- d) How does modern software management differ from conventional management? [1M]
- e) What is the purpose of artifact sets in software development? [1M]
- f) List two technical benefits of using model-based architecture. [1M]
- g) Mention two advantages of inter-trans workflows. [1M]
- h) What decisions are typically made at major milestones? [1M]
- i) State the different categories of management indicators used in software projects [1M]
- j) How pragmatic software management principles improve software development outcomes. [1M]

PART-B

(50 Marks)

- 2.a) Explain briefly theoretical view of Waterfall model. [5M]
 - b) Write about conventional software management performance. [5M]
- OR**
3. Describe how improving software processes leads to better software economics and project outcomes. [10M]
 4. Explain how software functionality and performance are validated during the construction phase. [10M]
- OR**
5. Discuss the challenges faced while shifting from conventional to iterative management and ways to overcome them. [10M]
 6. Compare and contrast the management, engineering, and programmatic artifact sets with suitable examples. [10M]
- OR**
7. Explain model-based software architecture with neat sketch. [10M]
 8. Compare and contrast major and minor milestones with suitable examples. [10M]
- OR**
9. Explain the key guidelines to be followed in effective software process planning. [10M]
 10. What are the four component teams in a default line-of-business organization and their responsibilities? [10M]
- OR**
11. Describe the major components of a software project environment. [10M]
