

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)

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|-------|---|------|
| 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)

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|------|---|------|
| 2.a) | Explain briefly theoretical view of Waterfall model. | [5M] |
| b) | Write about conventional software management performance. | [5M] |

OR

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| 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

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| 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

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| 7. | Explain model-based software architecture with neat sketch. | [10M] |
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| 8. | Compare and contrast major and minor milestones with suitable examples. | [10M] |
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OR

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| 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

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| 11. | Describe the major components of a software project environment. | [10M] |
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