CMR ENGINEERING COLLEGE:: HYDERABAD
UGC AUTONOMOUS
III–B.TECH–II–Semester End Examinations (Regular) - June- 2025
SOFTWARE PROJECT MANAGEMENT
(Common for CSE, CSC)

[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) According to Boehm's what are the first and second metrics in conventional methods. [1M]
   b) What does COCOMO stand for? [1M]
   c) What happens during the transition phase of the software life cycle? [1M]
   d) Describe about Life-Cycle Phases. [1M]
   e) What is an artifact in the context of software development? [1M]
   f) Name one benefit of using model-based architecture from a management perspective. [1M]
   g) Define periodic status assessment. [1M]
   h) What is WBS? [1M]]
   i) Who are stakeholders? Name them. [1M]
   j) List the quality indicators. [1M]

PART-B   (50 Marks)
2. Explain the concept of Waterfall Model in theoretical view. [10M]
                              OR
3.a) Briefly explain about the evolution of SoftwareEconomics. [5M]
  b) Explain in detail about Pragmatic Software Cost estimation. [5M]

4.a) What are the principles of modern software management? [5M]
  b) Describe transitioning to an iterative process. [5M]
                              OR
5.a) Write the primary objectives of Construction and Transition phases. [5M]
  b) Describe the phase of software project elaboration. [5M]

6. Discuss briefly the Engineering artifact sets. [10M]
                              OR
7. Describe technical perspective of model-based software architecture. [10M]

8. Explain the different software process workflows with suitable examples. [10M]
                              OR
9. Explain about the iteration planning process and pragmatic planning. [10M]

10. Explain the differences between line-of-business organizations and project organizations. [10M]
                              OR
11.a) What are management indicators? Explain. [5M]
   b) Discuss about automation building blocks. [5M]

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