

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

**III–B.TECH–II–Semester End Examinations (Supply) - June- 2025**

**SOFTWARE PROJECT MANAGEMENT**

**(CSE)**

**[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) Explain cost estimation process. [2M]
- b) What is Management? [2M]
- c) Name the five principles of a modern process. [2M]
- d) Explain about the construction phase. [2M]
- e) Define Artifact. [2M]
- f) Illustrate the three different aspects of an architecture. [2M]
- g) Draw the workflow of an iteration. [2M]
- h) Explain the goal of life-cycle objective milestone. [2M]
- i) Write about evolution of organizations. [2M]
- j) Give some examples of quality indicators. [2M]

**PART-B**

**(50 Marks)**

- 2.a) Explain the theoretical implications of waterfall model. [5M]
- b) Discuss software economics. Explain the evolution of it in detail. [5M]

**OR**

- 3.a) Why should project manager bother about software product size? Explain the ways of reducing the software product size. [5M]
- b) Justify how the peer inspection is the key aspects of a quality system with an example. [5M]

- 4.a) Discuss the principles of modern software management. [5M]
- b) Summarize transition to an iterative process. [5M]

**OR**

- 5.a) Demonstrate the essential activities of the Inception and Elaboration Phase. [5M]
- b) Describe briefly following two stages of the life cycle engineering and production. [5M]
  - i. construction. ii. Transition.

- 6.a) Explain the overview of the artifact set. [5M]
- b) Elaborate engineering artifacts. [5M]

**OR**

7. Demonstrate Architecture in detail from management and technical perspective. [10M]

- 8.a) What is a workflow? Explain in detail the process workflow. [5M]  
b) Outline the typical minor milestones in the life cycle iterations. [5M]

**OR**

- 9.a) Discuss about evolutionary work breakdown structures. [5M]  
b) Summarize cost and schedule estimation process. [5M]

- 10.a) Explain default role in a software- line-of business organization. [5M]  
b) What is process automation? Explain about various building blocks of it in detail. [5M]

**OR**

11. Demonstrate seven core metrics in managing modern process. [10M]

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