FACULTY OF ENGINEERING

B.E. (CSE/CME/AI&DS) V - Semester (AICTE) (Backlog) (New) Examination, July / August 2025
Subject: Software Engineering

Time: 3 Hours

Max. Marks: 70

Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each question carries 14 Marks.
  (ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
  (iii) Missing data, if any, may be suitably assumed.

1. a) List few evolutionary process models.

   b) What is Product Engineering?

   c) What are the uses of Transform mapping and transaction mapping?

   d) Distinguish between refactoring and refinement.

   e) Define Coupling.

   f) What is stress testing?

   g) Differentiate testing and debugging.

2. a) What is process framework? Explain about the umbrella activities of a software process framework.
   b) Explain in detail about Spiral Model.

3. a) What are the activities of requirements engineering? Explain in detail.
   b) List the Communication Principles.

4. a) Explain in detail about Class Based Modeling with an example.
   b) List and Explain Design Concepts.

5. a) How is component level Design Conducted?
   b) Explain the golden rules performed in User Interface Design.

6. a) Explain about White Box testing in detail.
   b) Write the steps to develop and implement Software Quality Assurance Plan.

7. a) Write About Debugging Techniques.
   b) Explain about Agile Process Models.

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