

FACULTY OF ENGINEERING

**B.E. CSE (AI&ML) IV –Semester (AICTE) (Main & Backlog) (New) Examinations,
August/September 2024**

Subject: Software Engineering

Max. Marks: 70

Time: 3 Hours

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) What are Prescriptive process models? List few Evolutionary process models.
b) Differentiate between personal and team process models.
c) Why Elicitation is difficult.
d) Define Verification and Validation.
e) Define Fork and Join.
f) What is Design Quality? List goals of a good design.
g) Differentiate between Alpha and Beta Testing.
2. a) What is a Process Framework? Explain about the umbrella activities of a software process framework.
b) Explain about (i) Spiral model (ii) Incremental development process (iii) RAD.
3. a) What is Requirements Engineering? Explain the tasks of Requirements Engineering.
b) Discuss various Analysis modeling approaches in detail.
4. a) List and explain various design concepts.
b) Explain Architectural styles and Patterns in detail.
5. a) Explain in detail about the different relationships used in Unified Modelling Language.
b) Draw and explain a Class Diagram for Hospital Management System.
6. a) Explain the concept of basis path Testing in detail with the help of an example.
b) Discuss about the elements and tasks of SQA.
7. a) Write short notes on Unified Process Model.
b) Write short notes on Integration Testing.