

FACULTY OF ENGINEERING
B.E. (CSE/CME/AI&DS) V - Semester (AICTE) (Main & Backlog) (New) Examination,
February/ March 2025

Code No: G-5/1604/Ex

Subject: Software Engineering

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.

Max. Marks: 70

1. a) Why is Software Engineering said to be a layered technology?
b) Differentiate between personal and team process models.
c) Define verification and validation.
d) Define fork and join.
e) Define cohesion.
f) What is performance testing?
g) Write short notes on alpha and beta testing.
2. a) Distinguish between incremental and evolutionary process models. Explain Spiral model in detail.
b) What is Agility? Explain XP and crystal process models in detail.
3. a) What is requirement engineering? Explain about Elicitation in detail.
b) Enumerate the Modelling Principles.
4. a) There are two different types of diagrams that are represented in scenario modelling. What are they?
b) Demonstrate the steps in building the class diagram with a suitable example.
5. a) Explain various Software Architectural Styles and Patterns with neat diagrams
b) Explain the golden rules performed in User Interface Design.
6. a) Explain about Black box testing in detail.
b) Write about ISO 9000 Quality standards.
c) Discuss about the elements and tasks of SQA.
d) Explain CMMI Model in detail.