

FACULTY OF ENGINEERING

B.E. (IT) V - Semester (AICTE) (Main & Backlog) (New) Examination, February/March 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) Define Software Engineering.
b) State the definition of Requirement Engineering.
c) What do mean by ISO 9000 Quality Standard?
d) Demonstrate about RMMM Plan.
e) Compare about Condition Testing and Data Flow Testing.
f) Define External View of Testing.
g) State metrics and Indicators.
2. a) Describe about Software Engineering process Frame work.
b) Explain clearly about a generic Process Model.
3. a) Explain design within the context of software Engineering.
b) Discuss about Architecture Mapping using Data Flow.
4. a) Summarize about Formal Approach to SQA.
b) What are the Measure of Reliability and availability?
5. a) Summarize about Black Box Testing.
b) Discuss about validation Testing.
6. a) Demonstrate clearly about Specialized Estimation Techniques.
b) Describe about Empirical Estimation Models.
7. a) Compare and Contrast about Architecture styles and Architecture Design.
b) Explain in detail about Building the Requirement model.