

FACULTY OF ENGINEERING

B.E. V – Semester (CSE) (AICTE) (Main) Examination, July 2021

Subject: Software Engineering

Time: 2 Hours

Max.Marks: 70

Note: Missing data, if any, may be suitably assumed

PART – A

Answer any five questions.

(5x2=10 Marks)

- 1 Why is software engineering said to be a layered technology?
- 2 What is process assessment?
- 3 What is system engineering? Why is it important?
- 4 What is the importance of validating requirements?
- 5 Differentiate between cardinality & modality.
- 6 What do you understand by the term "design quality"?
- 7 What are the uses of transform mapping and transaction mapping?
- 8 Define archetypes.
- 9 How is debugging different from testing? What are the goals of debugging?
- 10 What are the errors commonly found during unit testing?

PART – B

Answer any four questions.

(4x15=60 Marks)

- 11 a) Distinguish between incremental and evolutionary process models. Explain spiral model in detail.
b) Explain CMMI model.
- 12 a) What is requirements engineering? Explain about elicitation in detail.
b) What is risk? Explain how is risk managed?
- 13 a) How to create a behavioral model? Explain about the state representations.
b) Explain design concepts.
- 14 Explain the golden rules performed in user interface design in detail.
- 15 What are different levels of testing? Explain the usefulness of each level.
- 16 Write short notes on:
a) Data centered architecture styles.
b) Integration testing strategies.
- 17 Explain about:
a) Context level DFD
b) Umbrella activities of software process framework