

B.Tech II Year II Semester (R19) Regular Examinations September/October 2021

SOFTWARE ENGINEERING

(Common to CSE & IT)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- How does RAD facilitate faster development?
 - What is Delphi Cost Estimation?
 - How is the SRS document validated?
 - Explain about traceability.
 - Define software design. Write different types of software design.
 - Distinguish between a data flow diagram (DFD) and a flow chart.
 - Discuss briefly testing strategy for small and large software testing.
 - Briefly explain about code walkthrough.
 - What are different types of software maintenance?
 - What is a programming environment?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) Explain about life cycle activities of incremental development model.
 (b) Explain about software project management complexities in detail.

OR

- 3 (a) Explain about evolutionary model along with its disadvantages.
 (b) Write about project estimation techniques.

UNIT – II

- 4 Write the structure of the requirement document as suggested by IEEE standards.

OR

- 5 Explain how requirements are elicited and validated in software products.

UNIT – III

- 6 Create class-based component design with architecture modeling of UML for web-based movie ticket management system for multiplexes.

OR

- 7 Describe software design process in detail.

UNIT – IV

- 8 Compare black box testing with white box testing approaches with real test cases for any software project.

OR

- 9 Discuss about all possible levels of software testing.

UNIT – V

- 10 Schematically draw the architecture of a CASE environment and explain how the different tools are integrated.

OR

- 11 What do you mean by the term software reverse engineering? Why is it required? Explain the different activities undertaken during reverse engineering.
