

Register No.: ..... Name: .....

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER M.TECH DEGREE EXAMINATION (Regular), JULY 2022****COMPUTER SCIENCE AND SYSTEMS ENGINEERING****(2021 Scheme)****Course Code: 21SE202****Course Name: Computer Aided Software Engineering****Max. Marks: 60****Duration: 3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. What are the major types of interactions in a project?
2. Define requirement elicitation in a software development phase.
3. Draw a use case diagram for purchasing a book from an e-commerce website.
4. Elucidate client-server architectural style in system design.
5. Discuss the visibility of an attribute in interface specification.
6. Explain the refactoring with necessary diagram.
7. Describe the technical activities of software testing.
8. How will you model the evolution of a configuration item?

**PART B***(Answer one full question from each module, each question carries 6 marks)***MODULE I**

9. Explain the different types of Roles in Project Organization (6)

**OR**

10. Categorize the types of planned communication. (6)

**MODULE II**

11. Discuss the various requirement elicitation activities. (6)

**OR**

12. Describe V-Model with the help of a neat diagram. (6)

**MODULE III**

13. Design a State diagram for a library management system. (6)

**OR**

14. Explain Activity diagram in UML with neat figures. (6)

**MODULE IV**

15. Discuss in detail about non-functional requirements in software development. (6)

**OR**

16. Summarize the repository and MVC architectural styles. (6)

**MODULE V**

17. Write notes on Dynamic object modelling and static object modeling (6)

**OR**

18. Distinguish the four types of transformations in mapping. (6)

**MODULE VI**

19. Define usability testing. Explain the different types of usability testing. (6)

**OR**

20. Explain variant management in configuration management. (6)

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