

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

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER M.TECH DEGREE EXAMINATION (Regular), MAY 2023****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. Depict a UML Class diagram showing the components of a project organization and describe the components of a project organization.
2. Define the functional requirements of a software.
3. Draw a use-case diagram for purchasing a book from an online bookshop.
4. Elucidate peer-to-peer architectural style in system design.
5. Write short note on design patterns.
6. List out the operations for accessing collections in Object Constraint Language (OCL).
7. Test cases are the main factor in software testing. Write notes on test-cases.
8. Define acceptance testing.

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

9. Explain the different types of planned communication events. (6)

**OR**

10. Describe the phases of software project. (6)

**MODULE II**

11. Explain Waterfall model with the help of neat figure. (6)

**OR**

12. Explain the various activities involved in requirement elicitation. (6)

**MODULE III**

13. Develop a Sequence diagram that shows withdrawal of cash from an ATM. (6)

**OR**

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

**MODULE IV**

15. Summarize nonfunctional requirements. (6)

**OR**

16. Write notes on repository architecture style. (6)

**MODULE V**

17. Explain various OCL collections and quantifiers. (6)

**OR**

18. Describe the different types of transformation. (6)

**MODULE VI**

19. Define prototype test. Explain the different types of prototypes involved in prototype test. (6)

**OR**

20. Explain Release management. (6)

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