

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

SIXTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION (R), MAY 2023**(2020 SCHEME)****Course Code: 20IMCAT302****Course Name: Introduction to Software Engineering****Max. Marks: 60****Duration: 3 Hours****PART A*****(Answer all questions. Each question carries 3 marks)***

1. List the three different types of project categories under COCOMO.
2. What is requirements gathering? List some processes of requirements gathering.
3. Discuss the advantages and disadvantages of incremental waterfall model.
4. Which are the various phases of rapid application development?
5. Explain on various scrum roles.
6. What is exploratory testing? Why do we need it?
7. Write short note on burndown chart.
8. What is a user story? What are the characteristics of user stories?
9. Explain how DevOps is different from traditional methods.
10. What is continuous deployment?

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

11. a) What is software engineering? Why is it important? (3)
b) Outline the various empirical estimation models. (3)

OR

12. a) Explain on staffing. What is the nature of staffing? (3)
b) List the different types of recruitment. (3)

MODULE II

13. Describe predictive software engineering model. What are its applications? (6)

OR

14. Illustrate Sashmi model with diagram and justify the need of overlapping phase. (6)

MODULE III

15. Describe any two agile development practices with suitable diagrams. (6)

OR

16. Discuss on any three agile testing tools. (6)

MODULE IV

17. What is scrum framework? Give short note on scrum sprints. (6)

OR

18. List and explain various agile project estimation techniques. (6)

MODULE V

19. a) What is configuration management and why is it important? (3)

b) Compare and contrast continuous integration and continuous delivery. (3)

OR

20. a) Discuss on common deployment mistakes. (3)

b) Write short note on monitoring and learning. (3)
