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### SAINTGITS COLLEGE OF ENGINEERING KOTTAYAM, KERALA

(AN AUTONOMOUS COLLEGE AFFILIATED TO  
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

#### FIRST SEMESTER M.C.A DEGREE EXAMINATION(S), JULY 2021

**Course Code: 20MCAT107****Course Name: ADVANCED SOFTWARE ENGINEERING****Max. Marks: 60****Duration: 3 Hours**

#### PART A

*(Answer all questions. Each question carries 3 marks)*

1. Explain the different characteristics of a good software.
2. Compare predictive and adaptive software engineering models.
3. What are the advantages that distributed version control holds over centralized version control?
4. What is a pull request and why is it useful when working on open-source projects?
5. Explain the concept of abstract test in software development.
6. How is custom assertion used in testing framework?
7. Explain the role of defect life cycle in software engineering.
8. Explain the use of equivalence testing techniques.
9. Explain the principles of continuous delivery.
10. Write a short note on Continuous delivery.

#### PART B

*(Answer one full question from each module, each question carries 6 marks)*

##### MODULE I

11. Explain the different phases of software development life cycle. (6)

**OR**

12. Illustrate with a neat sketch the adaptive waterfall model in software development. (6)

##### MODULE II

13. Differentiate the following terms: (6)  
1. Pull 2. Clone 3. Fork

**OR**

14. Explain the git directory structure and how a version is stored in GIT. (6)

##### MODULE III

15. Write a short note on any one behavioral design pattern. (6)

**OR**

16. Explain unit testing concept and JUnit Architecture in software development. (6)

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## MODULE IV

17. Illustrate the lifecycle of scrum frame work in software development. (6)

**OR**

18. Explain any two methods used in white box testing technique. (6)

## MODULE V

19. Explain the strategy of continuous integration in configuration management. (6)

**OR**

20. Illustrate the different phases of a deployment pipeline in configuration management. (6)

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