

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

THIRD SEMESTER M.TECH DEGREE EXAMINATION (Regular), FEBRUARY 2022**COMPUTER SCIENCE & SYSTEMS ENGINEERING****(2020 Scheme)****Course Code :** 20CSSET231**Course Name:** Advanced Software Testing**Max. Marks :** 60**Duration: 3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. Differentiate between Acceptance and Operational Testing.
2. Explain McCabes Cyclomatic Complexity.
3. Write a note on Interoperability Testing.
4. Describe Bug Inheritance.
5. Write a short note on Main Frame Model.
6. Explain Anatomy of an attack in web security testing.
7. What are the characteristics of good testing tool?
8. List the Recurring costs associated with testing tools.

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

9. Explain seven step Software Testing Process. (6)

OR

10. Demonstrate the Development of a Test Plan with suitable example. (6)

MODULE II

11. Differentiate between Static Analysis and Dynamic Analysis in detail. (6)

OR

12. Calculate Cyclomatic complexity for the given code
while (i<n-1) do
 j = i + 1;
 while (j<n) do
 if A[i]<A[j] then
 swap(A[i], A[j]);
 end do
 i=i+1;
end do; (6)

MODULE III

13. Define Technical Security Testing. Highlight any two security issues associated with Technical Security Testing . (6)

OR

14. Explain Reliability Testing and Maintainability Testing. (6)

MODULE IV

15. Illustrate Web System Architecture with a neat diagram. (6)

OR

16. Discuss the key features of Mobile web application platform testing in detail. (6)

MODULE V

17. Explain the vulnerabilities and attacks in Web Security Testing. (6)

OR

18. Discuss the Capability Maturity Model and Differentiate the 5 CMM levels in detail. (6)

MODULE VI

19. Explain various categories of testing tools used in software testing. (6)

OR

20. Write notes on Performance Testing and Monitoring Tools. (6)
