

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore-641 043**

**Master's Degree Examinations – November 2018
III Semester**

**Class : II PG
Major : Computer Science**

**Time :3 hours
Max. Marks: 60**

17MCSC17 SOFTWARE TESTING

**Part - A (10 x ½ = 5 Marks)
Choose the correct answer**

1. Which of the following is NOT a white box technique?
a) Statement testing b) Path testing c) State transition testing d) Data flow testing
2. Which of these activities provides the biggest potential cost saving from the use of CAST?
a) Test management b) Test execution c) Test design d) Test planning
3. Which of the following would NOT normally form part of a test plan?
a) Features to be tested b) Risks c) Incident reports d) Schedule
4. Which one of the following statements about system testing is NOT true?
a) System tests are often performed by independent teams.
b) Functional testing is used more than structural testing.
c) Faults found during system tests can be very expensive to fix.
d) End-users should be involved in system tests.
5. _____ is pre-release testing by end user representatives at the developer's site.
a) Beta testing b) Alpha testing c) Unit testing d) Regression testing
6. Increasing the quality of the software, by better development methods, will affect the time needed for testing (the test phases) by:
a) Reducing test time b) Increasing test time c) No change d) Can't say
7. A program with high cyclometric complexity is almost likely to be
a) Difficult to test b) Small c) Difficult to write d) Large
8. Static analysis is best described as _____.
a) The analysis of batch programs. b) The reviewing of test plans.
c) The use of black box testing. d) The analysis of program code.
9. The most important thing about early test design is that it:
a) Means inspections are not required. b) Makes test preparation easier.
c) Can prevent fault multiplication. d) Will find all faults.
10. _____ should be performed on specifications, code, and test plans.
a) Code b) Design c) Reviews d) All the above

Part -B

(5 X 4=20 Marks)

Answer the following

Answer should not exceed 200 words or one page

11. a) Define Software testing. Why it is necessary?
(Or)
b) What are the tester's roles in a software development organization? Explain
12. a) Write short note on Unit testing and Integration testing.
(Or)
b) What is regression testing? Explain in detail.
13. a) Describe the organization structures for testing teams.
(Or)
b) Write about the reporting test results in test management?
14. a) What are the software test automation? Explain
(Or)
b) What are the requirements for a test tool? Explain
15. a) Write short on status meeting.
(Or)
b) What are the components of review plans? Explain

Part - C

(5 x 7=35 Marks)

Answer the following

Answer should not exceed 600 words or three pages

16. a) Explain about the software quality and software testing principles.
(Or)
b) Explain briefly the origins of defects, defect classes and repository.
17. a) Explain about the types of system testing.
(Or)
b) What is scenario testing? Explain in detail.
18. a) Explain about the test planning and components in detail.
(Or)
b) Discuss the fundamentals of test process in detail.
19. a) Explain about the design and architecture for automation.
(Or)
b) What are the challenges in automation? Explain in detail.
20. a) Describe about the types of reviews in reporting.
(Or)
b) Explain the testing maturity model in detail.