

## **Multiple Choice Questions**

1.	In software quality assurance work there is no difference between software verification and
	software validation:

- a. True
- b. False

Answer: b

- 2. The best reason for using Independent software test teams is that
  - a. software developers do not need to do any testing
  - b. a test team will test the software more thoroughly
  - c. testers do not get involved with the project until testing begins
  - d. arguments between developers and testers are reduced

Answer: b

- 3. What is the normal order of activities in which traditional software testing is organized?
  - a. integration testing
  - b. system testing
  - c. unit testing
  - d. validation testing
    - A) a, d, c, b
    - B) b, d, a, c
    - C) c, a, d, b
    - D) d, b, c, a

Answer: c

- **4.** Class testing of object-oriented software is equivalent to unit testing for traditional software.
  - a. True
  - b. False

Answer: a

- **5.** By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is finished.
  - a. True
  - b. False



Answer: a

- **6.** Which of the following strategic issues needs to be addressed in a successful software testing process?
  - a. conduct formal technical reviews prior to testing
  - b. specify requirements in a quantifiable manner
  - c. use independent test teams
  - d. wait till code is written prior to writing the test plan
  - e. both a and b

Answer: e

- 7. Which of the following need to be assessed during unit testing?
  - a. algorithmic performance
  - b. code stability
  - c. error handling
  - d. execution paths
  - e. both c and d

Answer: e

- **8.** Drivers and stubs are not needed for unit testing because the modules are tested independently of one another.
  - a. True
  - b. False

Answer: b

- 9. Top-down integration testing has as it's major advantage(s) that
  - a. low level modules never need testing
  - b. major decision points are tested early
  - c. no drivers need to be written
  - d. no stubs need to be written
  - e. both b and c

Answer: e



- 10. Bottom-up integration testing has as it's major advantage(s) that
  - a. major decision points are tested early
  - b. no drivers need to be written
  - c. no stubs need to be written
  - d. regression testing is not required

Answer: c

- **11.** Regression testing should be a normal part of integration testing because as a new module is added to the system new
  - a. control logic is invoked
  - b. data flow paths are established
  - c. data require testing
  - d. all of the above
  - e. both a and b

Answer: e

- 12. Smoke testing might best be described as
  - a. bulletproofing shrink-wrapped software
  - b. rolling integration testing
  - c. testing that hides implementation errors
  - d. unit testing for small programs

Answer: b

- **13.** When testing object-oriented software it is important to test each class operation separately as part of the unit testing process.
  - a. True
  - b. False

Answer: b

- 14. The OO testing integration strategy involves testing
  - a. groups of classes that collaborate or communicate in some way
  - b. single operations as they are added to the evolving class implementation
  - c. operator programs derived from use-case scenarios
  - d. none of the above



Answer: a

15.	The focus	of validation	testing is to	uncover	places	that a	a user	will be	able t	o ok	oserve	failure
	of the soft	ware to confo	rm to its red	quiremen	ts.							

- a. True
- b. False

Answer: a

- **16.** Software validation is achieved through a series of tests performed by the user once the software is deployed in his or her work environment.
  - a. True
  - b. False

Answer: b

- **17.** Configuration reviews are not needed if regression testing has been rigorously applied during software integration.
  - a. True
  - b. False

Answer: b

- 18. Acceptance tests are normally conducted by the
  - a. Developer
  - b. End users
  - c. Test team
  - d. System engineers

Answer: b

- **19.** Recovery testing is a system test that forces the software to fail in a variety of ways and verifies that software is able to continue execution without interruption.
  - a. True
  - b. False

Answer: b



20.	Security testing	attempts to verify	that protection	mechanisms	built into a	system	protect it
	from improper p	enetration.					

- a. True
- b. False

Answer: a

- **21.** Stress testing examines the pressures placed on the user during system use in extreme environments.
  - a. True
  - b. False

Answer: b

- **22.** Performance testing is only important for real-time or embedded systems.
  - a. True
  - b. False

Answer: b

- 23. Debugging is not testing, but always occurs as a consequence of testing.
  - a. True
  - b. False

Answer: a

- 24. Which of the following is an approach to debugging?
  - a. Backtracking
  - b. Brute force
  - c. Cause elimination
  - d. Code restructuring
  - e. a, b and c

Answer: e