



Chettinad

College of Engineering & Technology

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.

Department of Computer Science and Engineering

IT8076 - SOFTWARE TESTING

Unit I - MCQ Bank

1. _____, in the software engineering domain, is the set of methods, practices, standards, documents, activities, policies, and procedures that software engineers use to develop and maintain a software system and its associated artifacts, such as project and test plans, design documents, code, and manuals.

- A. **Process**
- B. software process
- C. Software specification
- D. Software development

ANSWER: (A)

2. A _____ is a set of activities and associated results which produces a software product.
- A. Process
 - B. Software process**
 - C. Software specification
 - D. Software development

ANSWER: (B)

3. The functionality of software and constraints on its operation must be defined.
- A. Process
 - B. software process
 - C. Software specification**
 - D. Software development

ANSWER: (C)

4. The software to meet the specification must be produced.
- A. Process
 - B. software process
 - C. Software specification**

D. Software development

ANSWER: (D)

5. The software must be validated to ensure that it does what the customer wants.

A. Software validation

B. Software evolution

C. Testing

D. Software evolution

ANSWER: (A)

6. The software must evolve to meet changing customer needs.

A. Software validation

B. Software evolution

C. Testing

D. Software evolution

ANSWER: (B)

7. The _____, like most engineering artifacts, must be engineered. That is, it must be designed, implemented, evaluated, and maintained.

A. Software validation

B. Software evolution

C. software development process

D. Software evolution

ANSWER: (C)

8. _____ is the application of scientific, economic, social, and practical knowledge in order to design, build, and maintain structures, machines, devices, systems, materials and processes.

A. Engineering

B. Professional Engineer

C. Validation

D. Verification

ANSWER: (A)

9. One who practices engineering is called an _____, and those licensed to do so may have more formal designations such as _____.

A. Professional Engineer, Engineer

B. Engineer ,Professional Engineer

- C. Validation, Verification
- D. Verification, Validation

ANSWER: (B)

10. _____ is the process of evaluating a software system or component during, or at the end of, the development cycle in order to determine whether it satisfies specified requirements.

- A. Engineering
- B. Professional Engineer
- C. Validation**
- D. Verification

ANSWER: (C)

11. _____ is the process of evaluating a software system or component to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase.

- A. Engineering
- B. Professional Engineer
- C. Validation
- D. Verification**

ANSWER: (D)

12. _____ is generally described as a group of procedures carried out to evaluate some aspect of a piece of software.

- A. Testing**
- B. Validation
- C. Verification
- D. Debugging

ANSWER: (A)

13. _____ can be described as a process used for revealing defects in software, and for establishing that the software has attained a specified degree of quality with respect to selected attributes.

- A. Testing**
- B. Validation
- C. Verification

D. Debugging

ANSWER: (A)

14. _____ is defined as a set of activities which are well planned in advance and also conducted systematically. It is a process of checking the software product in a predefined way to know if the behavior is same as the expected one.

- A. **Testing**
- B. Validation
- C. Verification
- D. Debugging

ANSWER: (A)

15. An _____ is a mistake, misconception, or misunderstanding on the part of a software developer.

- A. **Error**
- B. Validation
- C. Verification
- D. Debugging

ANSWER: (A)

16. A _____ is introduced into the software as the result of an error.

- A. **Fault**
- B. Validation
- C. Verification
- D. Debugging

ANSWER: (A)

17. A failure is the inability of a software system or component to perform its required functions within specified performance requirements.

- A. **True**
- B. False

ANSWER: (A)

18. A test oracle is a document, or piece of software that allows testers to determine whether a test has been passed or failed.

- A. **True**
- B. False

ANSWER: (A)

19. A test bed is an environment that contains all the hardware and software needed to test a software component or a software system.

A. **True**

B. False

ANSWER: (A)

20. The degree to which the system performs its intended function.

A. **Correctness**

B. Reliability

C. Usability

D. Integrity

ANSWER: (A)

21. The degree to which the software is expected to perform its required functions under stated conditions for a stated period of time.

A. Correctness

B. Reliability

C. Usability

D. Integrity

ANSWER: (B)

22. _____ relates to the degree of effort needed to learn, operate, prepare input, and interpret output of the software

A. Correctness

B. Reliability

C. Usability

D. Integrity

ANSWER: (C)

23. _____ relates to the system's ability to withstand both intentional and accidental attacks.

A. Correctness

B. Reliability

C. Usability

D. Integrity

ANSWER: (D)

24. _____ relates to the ability of the software to be transferred from one environment to another.

- A. Correctness
- B. Reliability
- C. Usability
- D. **Portability**

ANSWER: (D)

25. Fault Model is a link between the error occurred and the fault/defect in the software.

- A. **True**
- B. False

ANSWER: (A)