



## 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)