

Professional Online Academy Vu Topper RM



CS608-Software Verification And Validation Update MCQ'S Mid Term



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Question No:1

(Marks:1)

Vu-Topper RM

The conditions in the decision table may take on _____.

A. True or False values only

B. 0 / 1 values only

C. Any number of values

D. Binary values only

Question No:2

(Marks:1)

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If a system takes three input values for the three lengths of a triangle, a valid test case for testing a triangle to be equilateral is:

A. 10, 10, 10

B. 14, 12, 27

C. 15, 11, 17

D. 12, 12, 20

Question No:3

(Marks:1)

Vu-Topper RM

In case of a valid triangle, if there are three types of valid situations then there will be 2 power 3 test conditions. Suppose, there are 3 impossible situations then, which of the following will be the remaining test conditions?

A. 7

B. 6

C. 5

D. 8

Question No:4

(Marks:1)

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Formal conformance testing technique is based on _____.

A. Finite state machine

B. Transition graph

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- C. Non-finite state machine
- D. Non regular language

Question No:5 (Marks:1) **Vu-Topper RM**

If a system takes three input values from 1 to 30 for the three lengths of a triangle, weak robust equivalence test cases will include _____ invalid test case in addition to Weak Normal.

- A. 15
- B. 10
- C. 2
- D. 6**

Question No:6 (Marks:1) **Vu-Topper RM**

Decision table is a tool that helps us look at the _____ of combination of conditions.

- A. Completeness and consistency**
- B. Validity
- C. Consistency
- D. Completeness

Question No:7 (Marks:1) **Vu-Topper RM**

A _____ is a hypothetical story, used to help a person think through a complex problem or system.

- A. Scenario**
- B. Functional specification
- C. Use case
- D. Requirement

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Question No:8

(Marks:1)

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Bug status is set to postpone due to _____.

- A. The bug may not be the major effect in the software
- B. Data may be unavailable
- C. Lack of time for the release**
- D. Priority of that bug may low

Question No:9

(Marks:1)

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When should a company stop the testing of a particular software?

- A. After Unit testing
- B. After smoke testing
- C. After Integration testing
- D. It depends on the risks for the system being tested**

Question No:10

(Marks:1)

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Control sequence state is indicated by _____.

- A. Conditional box
- B. State box**
- C. Decision box
- D. Data box

Question No:11

(Marks:1)

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If a test produces different results for one of the mutants, that mutant is said to be _____.

- A. dead**
- B. lucky
- C. immortal
- D. alive

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Question No:12

(Marks:1)

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What are the basic assumptions regarding Finite State Machines?

- A. Non-deterministic and completely defined
- B. Non-deterministic and partially defined
- C. Deterministic and partially defined
- D. Deterministic and completely defined**

Question No:13

(Marks:1)

Vu-Topper RM

In which of the following technique, we sow one fault at a time leading to original program and mutant version of that program?

- A. Fault seeding technique
- B. Control flow coverage
- C. Mutation Testing**
- D. Data flow coverage

Question No:14

(Marks:1)

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Effective testing will reduce _____ cost.

- A. documentation
- B. coding
- C. design
- D. maintenance**

Question No:15

(Marks:1)

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Which of the following is a description of system's behavior?

- A. Class
- B. Attributes
- C. Model**
- D. Abstraction

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Question No:16

(Marks:1)

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_____ occurs when a system is nearly idle, waiting for a port input event to trigger further processing.

A. Event quiescence

B. Message quiescence

C. Code quiescence

D. Data quiescence

Question No:17

(Marks:1)

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ASFs are the _____ items to be tested during _____ testing.

A. Largest, Unit

B. Smallest, Unit

C. Largest, Integration

D. Smallest, Integration

Question No:18

(Marks:1)

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The goal of testing is to _____ the number and _____ of defects found per dollar spent.

A. minimize, outcome

B. maximize, usefulness

C. minimize, severity

D. maximize, severity

Question No:19

(Marks:1)

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Which of the following is a sequence of statements that begins with a source node and ends with a sink node with no intervening sink nodes?

A. Module execution path

B. Modular running stream

C. Modular bypassing path

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D. Module process path

Question No:20

(Marks:1)

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When we slice a code, in IF Structure both statements (true & false) should be executed in----- type of slice.

A. Backward

B. Static

C. Dynamic

D. Forward

Question No:21

(Marks:1)

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_____ provides instructions for test cases.

A. Use case

B. Test script

C. Test procedure

D. Test plan

Question No:22

(Marks:1)

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_____ integration testing strategy is more useful for integrating object-oriented systems.

A. Hybrid

B. Bottom-up

C. Sandwich

D. Top-down

Question No:23

(Marks:1)

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Which of the following is the output produced by Test case designing phase of unit testing?

A. Generate I/O pairs

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B. Test set

- C. Code under testing
- D. Detailed software design

Question No:24 (Marks:1) **Vu-Topper RM**
SQL Injection technique can be applied for _____ of an application.

A. Volume Testing

B. Security Testing

- C. Storage Testing
- D. Load Testing

Question No:25 (Marks:1) **Vu-Topper RM**
_____ occurs when a unit reaches to a state that no further subroutine invocations take place.

A. Message quiescence

B. Event quiescence

C. Code quiescence

D. Data quiescence

Question No:26 (Marks:1) **Vu-Topper RM**
JMeter is a software tool that can be used to perform _____ for analyzing and measuring the performance of an application.

A. Volume Testing

B. GUI Testing

C. Storage Testing

D. Load Testing

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Question No:27

(Marks:1)

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In _____, we have one integration test session for each edge in the call graph.

A. Neighborhood integration

B. Pair-wise integration

C. Top-down integration

D. Bottom-up integration

Question No:28

(Marks:1)

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ASFs represent the seam between _____ and _____ testing.

A. Unit, System

B. System, Acceptance

C. Integration, System

D. Unit, Integration

Question No:29

(Marks:1)

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_____ occurs when a sequence of processing culminates in the creation of stored data that is not immediately used.

A. Code quiescence

B. Message quiescence

C. Event quiescence

D. Data quiescence

Question No:30

(Marks:1)

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An interleaved sequence of module execution paths and messages is called an _____.

A. NM-Path

B. MM-Path

C. NN-Path

D. MN-Path

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Question No:31

(Marks:1)

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For integration testing of two modules, we write

_____.

A. Test case which is a series of invocations

B. Test case for each module

C. Single step test case

D. Remarks

Question No:32

(Marks:1)

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The difference between the actual and the ideal is described as

_____.

A. Error

B. success

C. validation

D. testing

Question No:33

(Marks:1)

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CFG is a directed graph G represented as _____.

A. $G = (N, E)$

B. $G = (E, N)$

C. $G = (N+E)$

D. $G = (N-E)$

Question No:34

(Marks:1)

Vu-Topper RM

Which of the following is correct for the object killed in dataflow testing?

A. All of the given

B. It is released or made unavailable (e.g., out of scope)

C. It is a loop control variable when the loop starts executing

D. It is a file that has been opened

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Question No:35

(Marks:1)

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In a data-flow anomaly, ku means _____.

- A. An object is killed and then defined
- B. An object is defined and then killed
- C. An object is defined and then used
- D. An object is killed and then used**

Question No:36

(Marks:1)

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Integration testing is performed by _____.

- A. System engineers
- B. End users
- C. Testing team
- D. Developers**

Question No:37

(Marks:1)

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_____ are the major reasons that leads to software defects.

- A. Inconsistent requirements and Inadequate design
- B. Inconsistent requirements, Inadequate design and Misleading development tools**
- C. Inconsistent requirements and Misleading development tools
- D. Inadequate design and Misleading development tools

Question No:38

(Marks:1)

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In _____, it is sometimes required to develop stubs for the testing activities.

- A. Unit testing and Integration testing**
- B. Unit testing and Acceptance testing
- C. System testing and Acceptance testing
- D. System testing and Integration testing

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Question No:39

(Marks:1)

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Activities involved in validation are _____.

A. Black-box, White-box, and Gray-box testing

B. Reviews, Meetings, and Inspections

C. Analysis and Design

D. Deployment and maintenance

Question No:40

(Marks:1)

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In the context of dataflow testing coverage criteria, a _____ is a location where value is accessed.

A. use

B. method

C. du-pair

D. definition (def)

Question No:41

(Marks:1)

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Which of the following statements is incorrect?

A. There can be bugs even in our test design

B. Bug fixing at earlier stages is comparatively less costly

C. Bug fixing at later stages is comparatively less costly

D. Testing consumes substantial project resources

Question No:42

(Marks:1)

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_____ is the process of evaluating the product of a development phase to find out whether they meet it meets the specified requirements.

A. Defect prevention

B. Validation

C. Bug fixing

D. Verification

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Question No:43

(Marks:1)

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CFG is annotated by the words d, k, u; where d is _____.

- A. Killed, Undefined, Released
- B. Defined, Created, Initialized
- C. Defined, Created, Released**
- D. Used

Question No:44

(Marks:1)

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In CFG, a path whose all edges are unique is known as _____.

- A. Simple path**
- B. Execution path
- C. Complete path
- D. Elementary path

Question No:45

(Marks:1)

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A variable is used in a _____ when it appears directly in that predicate.

- A. Computation (c)
- B. None of the given
- C. Predicate (p)**
- D. Both

Question No:46

(Marks:1)

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In CFG, statement node represents a _____.

- A. Simple statement**
- B. Copyright statement
- C. Complex statement
- D. Conditional statement

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Question No:47

(Marks:1)

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_____ is fault prevention through process design and auditing.

A. Quality of conformance

B. Quality assurance

C. Quality control

D. Quality planning

Question No:48

(Marks:1)

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What is the correct sequence in which software testing is performed?

A. Unit testing, Integration testing, Acceptance testing, System testing

B. Unit testing, Integration testing, System testing, Acceptance testing

C. Acceptance testing, System testing, Integration testing, Unit testing

D. System testing, Integration testing, Unit testing, Acceptance testing

Question No:49

(Marks:1)

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In CFG based testing, _____ means to ensure that the IF statement evaluates to TRUE and FALSE at least once.

A. Node coverage

B. Branch coverage

C. Decision coverage

D. Edge coverage

Question No:50

(Marks:1)

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In CFG based testing, a _____ is a program point at which the control can diverge.

A. Thread

B. Junction

C. Process block

D. Decision

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Question No:51

(Marks:1)

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In the context of CFG, _____ is a complete path that can be exercised by some input data.

A. Elementary path

B. Execution path

C. Shortest path

D. Simple path

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