CC-307 Software Testing

- Unit-1,2,3 Covered from Software Testing By Naresh Chauhan
- Unit-4 Covered from Software Testing By Srinivasan Desikan

Unit-1 [Chapter-1, 2]

Chapter-1		
 Bug discovery is a goal of software testing. (a) Long-term (b) Short-term (c) Post-implementation (d) All 		
 Customer satisfaction and risk management are goals of software testing. (a) Long-term (b) Short-term (c) Post-implementation (d) All 		
 3. Reduced maintenance is a goal of software testing. (a) Long-term (b) Short-term (c) Post-implementation (d) All 		
 4. Software testing produces (a) Reliability (b) Quality (c) Customer Satisfaction (d) All 		
 5. Testing is the process of errors. (a) Hiding (b) Finding (c) Removing (d) None 		
6. Complete testing is (a) Possible (b) Impossible (c) None		
Chapter-2		

1. Fault is synonymous with the word _____.

(a) Failure

	(b) Defect (c) Error (d) All of the above
2.	The inability of a system or component to perform a required function according to its specification is called as (a) Failure (b) Bug (c) Error (d) None of the above
3.	Testware includes (a) test planning document (b) test data (c) test specifications (d) All of the above
4.	Symptom(s) associated with a failure that alerts the user to the occurrence of a failure is called (a) Bug (b) Error (c) Defect (d) Incident
5.	Testing process starts as soon as the for the system are prepared. (a) Design (b) Coding (c) Specifications (d) None of the above
6.	Testing strategy should start at the module level and expand towards the whole program. (a) Smallest (b) Largest (c) None of the above
7.	Testing is a process. (a) Intuitive (b) Random (c) Planned (d) None of the above
8.	Planning the whole testing process into a well-planned series of steps is called
	(a) Test strategy matrix (b) Test factor (c) Test phase (d) Test strategy
9.	The test strategy matrix is prepared using the (a) test planning and execution

(b) test factor and test phase (c) test factor (d) test phase
 10. The process of evaluating a system or component to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase is called (a) Verification (b) Validation (c) SDLC (d) None of the above Software Testing Terminology and Methodology 63 I
 11. The process of evaluating a system or component during or at the end of the development process to determine whether it satisfies the specified requirements is called (a) Verification (b) Validation (c) SDLC (d) None of the above
 12. In the early stages of SDLC, testing comprises more activities and towards the later stages, the emphasis is on the activities. (a) verification, validation (b) validation, verification (c) integration, coding (d) None
 13. Technique for assessing the structural characteristics of source code, design specifications, or any notational representation that conforms to well-defined syntactic rules is called (a) Dynamic testing (b) Static Testing (c) Black-Box Testing (d) None of the above
 14. Every design feature and its corresponding code is checked logically with every possible path execution in (a) Black-box testing (b) White-box testing (c) Testing tool (d) None of the above
Unit-2 [Chapter-4, 5, 6] Chapter-4
 Black-box testing is a (a) Static testing (b) Dynamic testing (c) None of the above

2.	It has been observed that test cases, which are designed with boundary input values, have a chance of finding errors. (a) High (b) Low (c) Medium (d) Zero
3.	How many test cases are there in BVC if there are 5 variables in a module? (a) 23 (b) 13 (c) 10 (d) 21
4.	How many test cases are there in robustness testing if there are 5 variables in a module? (a) 23 (b) 31 (c) 10 (d) 21
5.	How many test cases are there in worst-case testing if there are 4 variables in a module? (a) 623 (b) 513 (c) 625 (d) 521
6.	Each row of state table corresponds to (a) Input (b) State (c) Transition (d) None of the above
7.	Each column of state table corresponds to (a) Input (b) State (c) Transition (d) None of the above
8.	Intersection of a row and a column specifies (a) Input (b) State (c) Transition and output (d) None of the above
9.	What are the components of a decision table? (a) Condition stub (b) Condition entry (c) Action stub (d) All

10	the most test cases. (a) k+2, 2n+2 (b) k+3, 2n+3 (c) k, 2n (d) None of the above	test cases and at
11	. Boundary value analysis and equivalence class partitioning methods	do not consider
	(a) Combinations of input conditions (b) Inputs (c) Outputs (d) None	
Chap	ter-5	
1.	White-box testing is to black-box testing. (a) mutually exclusive (b) complementary (c) not related	
2.	The effectiveness of path testing rapidly as the size of softwood decreases (b) increases (c) does not change (d) none of the above	vare under test.
3.	A node with more than one arrow leaving it is called a (a) decision node (b) junction node (c) region (d) all of the above	
4.	A node with more than one arrow entering it is called a (a) decision node (b) junction node (c) region (d) all of the above	
5.	Areas bounded by edges and nodes are called (a) decision node (b) junction node (c) region (d) all of the above	
6.	The length of a path is measured by the number of (a) instructions (b) junction nodes (c) decision nodes	

	(d) links
7.	An independent path is any path through the graph that introduces at least new set of processing statements or new conditions. (a) 4 (b) 3 (c) 1 (d) 2
8.	The number of independent paths is given by (a) $V(G) = e - n + 1$ (b) $V(G) = 2e - n + 1$ (c) $V(G) = e - n + 2$ (d) none of the above
9.	According to Mill's Theorem, (a) $V(G) = d + 2P$ (b) $V(G) = d + P$ (c) $V(G) = 2d + P$ (d) None of the above
Chap	ter 6
1.	In static testing, a bug is found at its location. (a) Exact (b) Nearby (c) None of the above
2.	Static testing can be applied for most of the (a) Validation activities (b) Verification activities (c) SDLC activities (d) None of the above
3.	Formal peer evaluation of a software element whose objective is to verify that the software element satisfies its specifications and conforms to standards, is called (a) Walkthrough (b) Inspections (c) Reviews (d) None of the above
4.	The programmer or designer responsible for producing the program or document is known as (a) Author (b) Owner (c) Producer (d) All
5.	The person who finds errors, omissions, and inconsistencies in programs and

	documents during an inspection is known as (a) Inspector (b) Moderator (c) Author (d) Producer
6.	The key person with the responsibility of planning and successful execution of inspection is known as (a) Inspector (b) Moderator (c) Author (d) Producer
7.	The inspection team points out any potential errors or problems found and records them in (a) SDD (b) SRS (c) STD (d) Log Form
8.	'How much evaluation of an item has been done by the team' is called (a) Rate of errors (b) Rate of inspection (c) Rate of failures (d) None of the above
9.	is a more formal process. (a) Walkthroughs (b) Inspection (c) Reviews (d) None of the above
10	. A review is similar to an inspection or walkthrough, except that the review team also includes (a) Customer (b) Developer (c) Tester (d) Management
Chapt	Unit-3 [Chapter-7] er-7.
1.	Software validation is achieved through a series of tests that demonstrate conformity with requirements. (a) white-box (b) black-box (c) unit tests (d) none of the above

2.	Before we validate the entire software, must be validated first. (a) modules (b) system (c) functionality (d) all of the above
3.	Unit tests ensure that the software meets at least a of functionality prior to integration and system testing. (a) high-level (b) low-level Validation Activities (c) baseline level (d) none of the above
4.	Two types of interface modules which must be simulated, if required, to test the module are (a) unit and integration (b) simulators and emulators (c) stubs and drivers (d) none of the above
5.	Overhead of stubs and drivers may increase the of the entire software system (a) test cases (b) time (c) cost (d) time and cost
6.	Integration of modules is according to the of software. (a) design (b) coding (c) specifications (d) all of the above
7.	Recovery is the ability of a system to operations after the integrity of the application has been lost. (a) suspend (b) observe (c) restart (d) all of the above
8.	A system that meticulously records transactions and system states periodically so that these are preserved in case of a failure is called a (a) checkpoint (b) transaction system (c) recovery system (d) none of the above
9.	Security requirements should be associated with each requirement. (a) functional (b) design (c) coding

(d) testing
 10. Measures intended to allow the receiver to determine that the information which it receives has not been altered in transit is known as (a) confidentiality (b) integrity (c) authentication (d) none of the above
 11. The process of determining that a requester is allowed to receive a service or perform an operation is called (a) confidentiality (b) integrity (c) authentication (d) authorization
 12. A measure intended to prevent the later denial that an action happened, or a communication took place is called (a) confidentiality (b) integrity (c) non-repudiation (d) authorization
 13. Acceptance testing must occur at the of the development process. (a) start (b) end (c) middle (d) none of the above
14. The total number of sessions in a pair-wise call graph-based integration testing is
(a) total edges in the graph + 2 (b) nodes + leaves (c) nodes – leaves + edges (d) total edges in the graph
15. Total number of sessions in neighborhood call graph-based integration testing is
(a) total edges in the graph + 2 (b) nodes + sink nodes (c) nodes – leaves + edges (d) nodes – sink nodes
16. The nodes where the control is being transferred after calling the module, are called
(a) sink nodes (b) source nodes (c) message (d) none of the above
17. The nodes from which the control is transferred are called

	(a) sink nodes (b) source nodes (c) message (d) none of the above
18.	When the control from one unit is transferred to another unit, then the programming language mechanism used to do this is known as (a) sink nodes (b) source nodes (c) message (d) none of the above
19.	A call graph is a (a) undirected graph (b) cyclic graph (c) directed graph (d) none of the above
	Unit-4
2. 3. 4. 5. 6. 7. 8. 9.	The criteria specify when a test activity is started entry The criteria specify when a test cycle can be completed exit A test cycle is an isolated activity. [True/ False] - False (It is continuous activity) is done based on estimation of effort involved and avaibility of time for release Staffing standards are externally visible to the customers External standards are formulated by a testing organization Internal The elements of test infrastructure management are, and TCDB, DR, CM TCDB stands for Test Case Database DR stands for Defect Repository SCM stands for Software configuration management
12. 13.	The contains all the information about the test cases in an organization TCDB The captures all the details of defects reported for a product DR A keeps track of change control and version control of all the files SCM or CM A is a tool used to validate that every requirement is tested Traceability matrix
16.	Using the test plan, the is designed. – Test case specifications A report that summarizes the results of a test cycle is the report. – Test Summary Report A is a communication that happens through the testing cycle when defects are
	encountered. – Test Incident Report A gives summary of the activities carried out during the testing cycle. – Test Cycle Report