



BVRIT HYDERABAD College of Engineering for Women

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Bachupally, Hyderabad-090

Department of Computer Science & Engineering

Multiple Choice Questions

Year : III **Semester** : III/ I **Regulations** : R18
Course Code : **Course Name** : SOFTWARE ENGINEERING
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Faculty Name(s) : Vinay Raj

UNIT-IV: Syllabus		
S.No	Question	Answer
1	Which of the following tasks is not involved in static testing? A) Find out whether the code works according to the functional requirements. B) Find out whether the code has been written in accordance with the design developed earlier in the project life cycle. C) Find out whether the code handles errors properly. D) Find out whether the code executes properly or not.	D
2	In multiple conditional coverage, if there are K conditions, then how many test cases will be required? A) 2K B) 2^K C) K^2 D) K	B
3	Fuzzy testing comes under which kind of testing? A) Black box testing B) Grey box testing C) White box testing D) Model based testing	A

4	Which of the following is not a type in loop testing? A) Nested loops B) Concatenated loops C) Unstructured loops D) Structured loops	D
5	Testing is a trade-off between _____ A) Budget, People and Time B) Budget, Time and Test cases C) Budget, Time and Quality D) Budget, Quality and Test cases	C
6	Typically, more than how much percentage of development time is spent on testing? A) 60% B) 30% C) 45% D) 50%	D
7	Which of the following is not a synonym of White box testing? A) Glass box testing B) Open box testing C) Model based testing D) Design based testing	C
8	Which of the following is not a Automated testing technique? A) Reliability Testing B) Scalability Testing C) Correctness Testing D) Security Testing	B
9	The main idea of _____ testing is to find out potential problems with the design of the software? A) Security Testing B) Loop Testing C) Reliability Testing D) Load Testing	C
10	Which of the following is not a UNIT Testing technique? A) Heuristic Testing B) Intuitive Testing C) Structural Testing D) Comparison Testing	D
11	The type of testing in which all the processes and procedures are placed in order to allow the user to test it? A) Alpha Testing B) Beta Testing C) Operational Acceptance Testing D) Compatibility Testing	C
12	Which of the following is the valid sequence of the components in software testing? A) Test -> Plan -> Act-> Check B) Plan ->Do -> Check -> Act C) Check -> Plan -> Act -> Do D) Plan -> Check -> Do -> Act	B
13	Which of the following party do not have a vested interest in software testing process? A) Software Developer B) Software Customer	D

	C) Software Manager D) Software Production Manager	
14	Which of the following is not a software testing guidelines? A) Testing should uncover defects. B) Testing should occur throughout the development life cycle. C) Testing should be performed using business logic. D) Testing should be done to verify both functional and non functional requirements.	D
15	Which of the following is not a category of defects? A) Wrong B) Missing C) Failure D) Extra	C
16	Which of the following reasons leads to defects in software systems? A) There are no errors in program when unit tested. B) The design specifications are incorrect. C) There are no data entry errors. D) The users implement the code as given in the specifications.	B
17	If suppose a defect is found and fixed during the SDLC design phase costs x to fix. Then if the same defect is fixed at test phase will cost? A) X B) 2x C) 5x D) 10x	D
18	If suppose a defect is found and fixed during the SDLC design phase costs x to fix. Then if the same defect is fixed at production phase will cost? A) 100x B) 25x C) 50x D) 10x	A
19	Which of the following statements is correct? A) The Unit testing is performed only by developers and it falls under verification B) The Unit testing is performed by both developer and user, and it falls under verification C) The Unit testing is performed only by developer and it falls under validation D) The Unit testing is performed by both developer and user, and it falls under validation	C
20	Which of the following is the first step of testing a software? A) Plan the test that will be conducted on the software system B) Prepare for testing a software system C) Conduct acceptance testing by the software system users D) Test the installation of the software	B
21	The software system type which receives data from external source and issues commands to that source to control its actions based on the received data. A) Event control B) Process control C) Procedure control D) External control	B
22	The objective of the _____ is to provide a basis for questioning by the test team to identify defects. A) Use cases	B

	B) Walk throughs C) Risk Matrix D) Snapshot	
23	Out of the 4 tester skills, which skill has the ability to translate user requirements into computer system design specifications? A) User Skill B) Technical Skill C) System Skill D) Programming Skill	C
24	Which of the following is incorrect about testing? A) Testing is consistent B) Testing can be taught C) Test Processes is easy and simple D) Test Processes can be improved	C
25	According to Quality Assurance Institute (QAI), the average number of defects in 1000 source statements is? A) 25-40 B) 20-40 C) 30-60 D) 20-60	D
26	Consider the following two statements P.The objective of verification is to determine whether you built the system right. Q.The objective of validation is to ensure that you are building a right system. A) Both P and Q are correct B) Both P and Q are incorrect C) P is correct and Q is incorrect D) P is incorrect and Q is correct	B
27	Which of the following is not a responsibility of test manager? A) Define the scope of testing B) Appoint the test team C) Execute the test plan D) Write the test plan	C
28	For the test factor “Correctness”, which of the testing strategy is used? A) Functional testing B) Inspection C) Compliance testing D) Manual testing	A
29	Out of the following test phases, which one is the last phase? A) Unit testing B) Acceptance testing C) Integration testing D) System testing	B
30	To identify the optimized use of software/hardware, which of the following testing is used? A) Stress testing B) Load testing C) Execution testing D) Compliance testing	C
31	Which of the following testing ensures that the previously tested segments do not change after a change has been made in another part of the application.	B

	A) Parallel testing B) Regression testing C) Control testing D) Inter systems testing	
32	The process used by a tester to check the accuracy and completeness of his/her work. A) Inspection B) Walkthrough C) Desk debugging D) Review	C
33	Behavior testing is also known as A) Functional testing B) Regression testing C) Structural testing D) Compliance testing	A
34	Thread testing is used for testing of A) Service oriented system B) Object oriented system C) Function driven system D) Model driven system	B
35	A column in the entry position of the decision table is called as A) Stub B) Condition C) Rule D) Paradigm	C
36	Which of the following diagrams is used by tester? A) Use case diagram B) Class diagram C) Component diagram D) Test diagram	A
37	Which feature of software increases whenever a new defect is detected and fixed? A) Effectiveness B) Reliability C) Maintainability D) Efficiency	B
38	Breadth and depth methodology is used to perform? A) Functional testing B) Structural testing C) Maintenance testing D) Sanity testing	C
39	Which of the following is not a defect severity ? A) Critical B) Major C) Minor D) Normal	D
40	Which testing is used to test whether the software is fit for the user to use? A) User Testing B) Acceptance Testing C) System Testing D) Complete Testing	B
41	Which of the following is not a component to consider a software to be fit?	D

	A) Rules B) People C) Data D) Testing	
42	Use cases are used in software testing for ? A) Develop Test cases B) Develop Test plan C) Identify who will test the application D) Identify the modules to be tested	A
43	Which testing is conducted by both the user and software maintenance test team ? A) Software update testing B) Software change testing C) Software enhance testing D) Software maintenance testing	B
44	Which of the following helps in understanding the whether security is needed for a system or not? A) Rule-Block matrix B) Penetration-Point matrix C) Code-Point matrix D) Block-Cipher matrix	B
45	TMM stands for A) Test Maturity Model B) Testing Maturity Model C) Test Maturity Module D) Testing Maturity Module	B
46	Which of the following phase is considered as revolutionary turning point in software testing? A) Evaluation-Oriented Phase B) Test-Oriented Phase C) Destruction-Oriented Phase D) Prevention-Oriented Phase	C
47	Which of the following a software testing myth? A) Testing is easy B) Testing continues even post implementation C) Testing effort is more than development D) Application cannot be tested 100%	A
48	Which of the following is a long term goal in software testing? A) Bug Discovery B) Quality C) Bug Prevention D) Improved Testing process	B
49	Which of the following is a risk factor in software testing? A) Time B) Software C) Hardware D) Quality	A
50	Which of the following is not a valid definition of software testing? A) Testing can show the presence of bugs but never their absence B) A successful test is one that uncovers an as-yet-undiscovered error C) Testing is the process of executing a program with the intent of finding	D

	errors D) Testing is the process of demonstrating that there are errors.	
51	If the range of values of two inputs a and b is from -9 to 9. Then the total number of test combination for addition of a and b is? A) 342 B) 361 C) 90 D) 324	B
52	Testing is a process of ____ errors A) Finding B) Fixing C) Preventing D) Hiding	A
53	Every design error _____ be found. A) Can B) Cannot C) May or may not D) Can definitely	B
54	When the results or behaviour of the system under test are different as compared to specified expectations, then ____ exists. A) Failure B) Error C) Bug D) Defect	A
55	_____ is a well-documented procedure designed to test the functionality of a feature in the system. A) Test Plan B) Test Case C) Test Execution D) Test Phase	B
56	Consider the following statements. P.Bugs-In Phase: The phase where the errors and bugs are introduced in the software Q.Bugs-Out Phase: The phase where we conclude that software is affected by bugs A) Both P and Q are True B) Only P is True C) Only Q is True D) Both P and Q are False	A
57	The activity by which we locate the module in which the bug occurs is A) Bug Identification B) Bug Isolation C) Bug Resolution D) Bug Classification	B
58	During testing life cycle, which of the following is not a state of a bug? A) Deferred B) Rejected C) Fixed D) Ready	D
59	The cost of a bug is identified with A) Detection cost + Prevention cost B) Detection cost + Correction cost	

	C) Detection cost + Regression cost D) Detection cost + Operational cost	
60	If the testing prior to coding is 50% effective, then the testing after coding is A) 75% effective B) 80% effective C) 100% effective D) No change	B
61	Which type of bug do not stop the functioning of the software but fails to meet the requirements? A) Critical bug B) Minor bug C) Major bug D) Medium bug	C
62	Any type of computation mistakes results in A) Logic bugs B) Processing bugs C) Data flow bugs D) Race condition bugs	B
63	Suppose the history of a software is you find 50 errors in module X, 12 in module Y and 3 in module Z. Then the tester should start testing from A) Module X B) Module Y C) Module Z D) Any Module of his/her choice	A
64	Which of the following is not a phase in Software Testing Life Cycle (STLC)? A) Test Cases B) Test Plan C) Test Design D) Test Review	A
65	System testing is performed by A) Developer and Tester B) Developer, Tester and User C) Tester and User D) Developer and User	B
66	_____ can help identify risk areas and help focus on quality improvement. A) Risk Analysis B) Reliability Analysis C) Overall Defect Analysis D) Coverage Analysis	C
67	The code of the application is not tested in which of the following technique? A) Static testing B) Dynamic testing C) Grey testing D) System testing	A
68	Which of the following is not true about verification process in software testing? A) Verification exposes more errors. B) Early verification decreases the cost of fixing bugs. C) Early verification enhances the quality of software. D) Verification increases the number of bugs in the system.	D
69	Which of the following is not a verification activity of software testing?	C

	A) Verification of Coding B) Verification of Requirements C) Verification of software/Hardware used D) Verification of HLD and LLD	
70	The plan prepared to verify the objectives specified in the SRS is A) Functional test plan B) System test plan C) Unit test plan D) Verification test plan.	B
71	Mutation testing falls under which testing category? A) Black box B) White box C) Static D) Regression	B
72	If there are n variables in a module, then the number of test cases that can be generated with boundary value checking method is A) $2n + 1$ B) $4n + 1$ C) $2n$ D) $4n$	B
73	If we extend the concept of BVC by assuming more than one variable at boundary, it is called as A) Robustness Testing B) Best-case Testing C) Worst case Testing D) Boundary Extension Testing	C
74	Which testing is known as development testing? A) Black box testing B) White box testing C) Design testing D) Implementation Testing	B
75	A node with more than one arrow entering in control flow graph is called A) Decision node B) Junction node C) Regions D) Compute node	B
76	if d is the number of choice points in the program, then the cyclomatic number is given by A) $2d + 1$ B) $d + 1$ C) $2d - 1$ D) $2d$	B
77	The maximum value of cyclomatic number for the system to be stable is A) 10 B) 5 C) 12 D) 8	A
78	The average cost of the inspection out of total cost of the project is A) 5-10% B) 15-20%	A

	C) 10-15% D) 0-5%	
79	Alpha testing is performed by A) User B) Developer C) Both User and Developer D) Tester	B
80	Which of the following is not a part of test plan? A) Incident Reports B) Risk C) Schedule D) Entry and Exit criteria	A
81	In Integration testing, the key objective is A) Design errors B) Interface errors C) Procedure errors D) Functional errors	B
82	Exploratory testing is A) White box testing technique B) Black box testing technique C) Grey box testing technique D) Experience based testing technique	D
83	Which Test Document is used to define the Exit Criteria of Testing? A) Defect Report B) Test Summary Report C) Test Case D) Test Plan	D
84	Which is not the right approach of Incremental testing approach? A) Big bang approach B) Top-down approach C) Functional incrimination D) Bottom-up approach	A
85	The test levels are performed in which of the following order? A) Unit, Integration, System, Acceptance B) It is based on the nature of the project C) Unit, Integration, Acceptance, System D) Unit, System, Integration, Acceptance	B
86	Generally, which testing is used when shrink-wrapped software products are being established and part of an integration testing? A) Integration Testing B) Validation testing C) Regression Testing D) Smoke testing	D
87	When we have to stop the testing? A) The faults have been fixed B) All the tests run C) The time completed D) The risk is resolved	D
88	According to Pareto's principle, _____% of defects can be traced to _____% of all causes.	C

	A) 60,40 B) 20, 80 C) 80, 20 D) 50, 50	
89	According to ISO 9001, inspection and testing comes under which management responsibility? A) Process control B) Document control C) Servicing D) Verification	A
90	Optimization, Defect Prevention, and Quality Control. Its come under the A) CMM Level 2 B) CMM Level 3 C) CMM Level 4 D) CMM Level 5	D
91	Inspections and testing are _____ kinds of Quality Costs. A) Prevention B) Internal Failure C) External Failure D) Appraisal	D
92	The degree to which the design specifications are followed during development is known as A) Quality of design B) Quality of conformance C) Quality of testing D) None of the mentioned	B
93	Executing the same test case by giving the number of inputs on same build called as A) Regression Testing B) ReTesting C) Ad hoc Testing D) Sanity Testing	B
94	Retesting of a single program or component after a change has been made? A) Full Regression Testing B) Unit Regression C) Regional Regression D) Retesting	B
95	AdHoc testing is a part of A) Unit Testing B) Regression Testing C) Exploratory Testing D) Performance Testing	C
96	To which phase will training cost fall? A) Failure B) Prevention C) Build D) Appraisal	B
97	Link testing is also called as A) Maintenance testing	C

	<p>B) Component Sub System testing</p> <p>C) Component Integration testing</p> <p>D) Component System testing</p>	
98	<p>The main focus of acceptance testing is:</p> <p>A) Ensuring that the system is acceptable to all users</p> <p>B) Testing for a business perspective</p> <p>C) Finding faults in the system</p> <p>D) Testing the system with other systems</p>	B
99	<p>Which of the following should NOT normally be an objective for test?</p> <p>A) To find faults in the software</p> <p>B) To demonstrate that the software doesnt work</p> <p>C) To access whether the software is ready for release</p> <p>D) To prove that the software is correct</p>	D
100	<p>Quality also can be looked at in terms of user satisfaction which includes</p> <p>A) A compliant product</p> <p>B) Good quality output</p> <p>C) Delivery within budget and schedule</p> <p>D) All of the mentioned</p>	D