	Question
	NOTE: Only one answer per question

1	**We split testing into distinct stages primarily because:**
	a) Each test stage has a different purpose.
	b) It is easier to manage testing in stages.
	c) We can run different tests in different environments.
	d) The more stages we have, the better the testing.

2	**Which of the following is likely to benefit most from the use of test tools providing test capture and replay facilities?**
	a) Regression testing
	b) Integration testing
	c) System testing
	d) User acceptance testing

3	**Which of the following statements is NOT correct?**
	a) A minimal test set that achieves 100% LCSAJ coverage will also achieve 100% branch coverage.
	b) A minimal test set that achieves 100% path coverage will also achieve 100% statement coverage.
	c) A minimal test set that achieves 100% path coverage will generally detect more faults than one that achieves 100% statement coverage.
	d) A minimal test set that achieves 100% statement coverage will generally detect more faults than one that achieves 100% branch coverage.

4	**Which of the following requirements is testable?**
	a) The system shall be user friendly.
	b) The safety-critical parts of the system shall contain 0 faults.
	c) The response time shall be less than one second for the specified design load.
	d) The system shall be built to be portable.

Question		
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5 **Analyse the following highly simplified procedure:**

Ask: "What type of ticket do you require, single or return?"

IF the customer wants 'return'

    Ask: "What rate, Standard or Cheap-day?"

    IF the customer replies 'Cheap-day'

       Say: "That will be £11:20"

    ELSE

       Say: "That will be £19:50"

    ENDIF

  ELSE

    Say: "That will be £9:75"

  ENDIF

Now decide the minimum number of tests that are needed to ensure that all the questions have been asked, all combinations have occurred and all replies given.

a) 3

b) 4

c) 5

d) 6

6 **Error guessing:**

a) supplements formal test design techniques.

b) can only be used in component, integration and system testing.

c) is only performed in user acceptance testing.

d) is not repeatable and should not be used.

7 **Which of the following is NOT true of test coverage criteria?**

a) Test coverage criteria can be measured in terms of items exercised by a test suite.

b) A measure of test coverage criteria is the percentage of user requirements covered.

c) A measure of test coverage criteria is the percentage of faults found.

d) Test coverage criteria are often used when specifying test completion criteria.

8 **In prioritising what to test, the most important objective is to:**

a) find as many faults as possible.

b) test high risk areas.

c) obtain good test coverage.

d) test whatever is easiest to test.

Question	
	NOTE: Only one answer per question
9	**Given the following sets of test management terms (v-z), and activity descriptions (1-5), which one of the following best pairs the two sets?** v – test control w – test monitoring x - test estimation y - incident management z - configuration control 1 - calculation of required test resources 2 - maintenance of record of test results 3 - re-allocation of resources when tests overrun 4 - report on deviation from test plan 5 - tracking of anomalous test results a) v-3,w-2,x-1,y-5,z-4 b) v-2,w-5,x-1,y-4,z-3 c) v-3,w-4,x-1,y-5,z-2 d) v-2,w-1,x-4,y-3,z-5
10	**Which one of the following statements about system testing is NOT true?** a) System tests are often performed by independent teams. b) Functional testing is used more than structural testing. c) Faults found during system tests can be very expensive to fix. d) End-users should be involved in system tests.
11	**Which of the following is false?** a) Incidents should always be fixed. b) An incident occurs when expected and actual results differ. c) Incidents can be analysed to assist in test process improvement. d) An incident can be raised against documentation.
12	**Enough testing has been performed when:** a) time runs out. b) the required level of confidence has been achieved. c) no more faults are found. d) the users won't find any serious faults.
13	**Which of the following is NOT true of incidents?** a) Incident resolution is the responsibility of the author of the software under test. b) Incidents may be raised against user requirements. c) Incidents require investigation and/or correction. d) Incidents are raised when expected and actual results differ.

Question	
	NOTE: Only one answer per question
14	**Which of the following is not described in a unit test standard?** a) syntax testing b) equivalence partitioning c) stress testing d) modified condition/decision coverage
15	**Which of the following is false?** a) In a system two different failures may have different severities. b) A system is necessarily more reliable after debugging for the removal of a fault. c) A fault need not affect the reliability of a system. d) Undetected errors may lead to faults and eventually to incorrect behaviour.
16	**Which one of the following statements, about capture-replay tools, is NOT correct?** a) They are used to support multi-user testing. b) They are used to capture and animate user requirements. c) They are the most frequently purchased types of CAST tool. d) They capture aspects of user behaviour.
17	**How would you estimate the amount of re-testing likely to be required?** a) Metrics from previous similar projects b) Discussions with the development team c) Time allocated for regression testing d) a & b
18	**Which of the following is true of the V-model?** a) It states that modules are tested against user requirements. b) It only models the testing phase. c) It specifies the test techniques to be used. d) It includes the verification of designs.
19	**The oracle assumption:** a) is that there is some existing system against which test output may be checked. b) is that the tester can routinely identify the correct outcome of a test. c) is that the tester knows everything about the software under test. d) is that the tests are reviewed by experienced testers.
20	**Which of the following characterises the cost of faults?** a) They are cheapest to find in the early development phases and the most expensive to fix in the latest test phases. b) They are easiest to find during system testing but the most expensive to fix then. c) Faults are cheapest to find in the early development phases but the most expensive to fix then. d) Although faults are most expensive to find during early development phases, they are cheapest to fix then.

	Question
	NOTE: Only one answer per question
21	**Which of the following should NOT normally be an objective for a test?** a) To find faults in the software. b) To assess whether the software is ready for release. c) To demonstrate that the software doesn't work. d) To prove that the software is correct.
22	**Which of the following is a form of functional testing?** a) Boundary value analysis b) Usability testing c) Performance testing d) Security testing
23	**Which of the following would NOT normally form part of a test plan?** a) Features to be tested b) Incident reports c) Risks d) Schedule
24	**Which of these activities provides the biggest potential cost saving from the use of CAST?** a) Test management b) Test design c) Test execution d) Test planning
25	**Which of the following is NOT a white box technique?** a) Statement testing b) Path testing c) Data flow testing d) State transition testing
26	**Data flow analysis studies:** a) possible communications bottlenecks in a program. b) the rate of change of data values as a program executes. c) the use of data on paths through the code. d) the intrinsic complexity of the code.
27	**In a system designed to work out the tax to be paid:** **An employee has £4000 of salary tax free. The next £1500 is taxed at 10%** **The next £28000 is taxed at 22%** **Any further amount is taxed at 40%** **To the nearest whole pound, which of these is a valid Boundary Value Analysis test case?** a) £1500 b) £32001 c) £33501 d) £28000

Question

NOTE: Only one answer per question

28   **An important benefit of code inspections is that they:**

a) enable the code to be tested before the execution environment is ready.

b) can be performed by the person who wrote the code.

c) can be performed by inexperienced staff.

d) are cheap to perform.

29   **Which of the following is the best source of Expected Outcomes for User Acceptance Test scripts?**

a) Actual results

b) Program specification

c) User requirements

d) System specification

30   **What is the main difference between a walkthrough and an inspection?**

a) An inspection is lead by the author, whilst a walkthrough is lead by a trained moderator.

b) An inspection has a trained leader, whilst a walkthrough has no leader.

c) Authors are not present during inspections, whilst they are during walkthroughs.

d) A walkthrough is lead by the author, whilst an inspection is lead by a trained moderator.

31   **Which one of the following describes the major benefit of verification early in the life cycle?**

a) It allows the identification of changes in user requirements.

b) It facilitates timely set up of the test environment.

c) It reduces defect multiplication.

d) It allows testers to become involved early in the project.

32   **Integration testing in the small:**

a) tests the individual components that have been developed.

b) tests interactions between modules or subsystems.

c) only uses components that form part of the live system.

d) tests interfaces to other systems.

33   **Static analysis is best described as:**

a) the analysis of batch programs.

b) the reviewing of test plans.

c) the analysis of program code.

d) the use of black box testing.

34   **Alpha testing is:**

a) post-release testing by end user representatives at the developer's site.

b) the first testing that is performed.

c) pre-release testing by end user representatives at the developer's site.

d) pre-release testing by end user representatives at their sites.

	Question
	NOTE: Only one answer per question
35	**A failure is:** a) found in the software; the result of an error. b) departure from specified behaviour. c) an incorrect step, process or data definition in a computer program. d) a human action that produces an incorrect result.
36	**In a system designed to work out the tax to be paid:** **An employee has £4000 of salary tax free. The next £1500 is taxed at 10%** **The next £28000 is taxed at 22%** **Any further amount is taxed at 40%** **Which of these groups of numbers would fall into the same equivalence class?** a) £4800; £14000; £28000 b) £5200; £5500; £28000 c) £28001; £32000; £35000 d) £5800; £28000; £32000
37	**The most important thing about early test design is that it:** a) makes test preparation easier. b) means inspections are not required. c) can prevent fault multiplication. d) will find all faults.
38	**Which of the following statements about reviews is true?** a) Reviews cannot be performed on user requirements specifications. b) Reviews are the least effective way of testing code. c) Reviews are unlikely to find faults in test plans. d) Reviews should be performed on specifications, code, and test plans.
39	**Test cases are designed during:** a) test recording. b) test planning. c) test configuration. d) test specification.
40	**A configuration management system would NOT normally provide:** a) linkage of customer requirements to version numbers. b) facilities to compare test results with expected results. c) the precise differences in versions of software component source code. d) restricted access to the source code library.

Question number	Correct answer
1	A
2	A
3	D
4	C
5	A
6	A
7	C
8	B
9	C
10	D
11	A
12	B
13	A
14	C
15	B
16	B
17	D
18	D
19	B
20	A
21	D
22	A
23	B
24	C
25	D
26	C
27	C
28	A
29	C
30	D
31	C
32	B
33	C
34	C
35	B
36	D
37	C
38	D
39	D
40	B