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(CTFL_UK)

iSQI CTFL UK

Version Demo

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Topic Break Down

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QUESTION NO: 1

In general, why is it NOT a good idea to estimate the testing effort based only on a percentage of development effort?
Identify THREE valid reasons. 1 credit

- A. The quality of the development estimate may be poor.
- B. In general bottom-up estimation is always better than top-down estimation.
- C. The percentage based technique only applies to the V life cycle model.
- D. Using the same percentage every time does not address the level of risk of the application to be tested.
- E. The maturity of the organization, e.g. the quality of the test basis, quality of development testing, configuration management, availability of test tools, also influence the effort needed for testing.
- F. It builds on large set of historical data
- G. The result is almost always a too low estimate for the required test effort

ANSWER: A D E

QUESTION NO: 2

Security falls under..?

- A. compliance testing
- B. disaster testing
- C. verifying compliance to rules
- D. functional testing
- E. ease of operations

ANSWER: A

QUESTION NO: 3

"Experience based" test design techniques, typically...

- A. Use decision tables to generate the Boolean test conditions to be executed.
- B. Identify the structure of the system or software at the component, integration or system level.
- C. Use the skill, intuition and experience of the tester to derive the test cases, using error guessing and exploratory testing.

D. Establish traceability from test conditions back to the specifications and requirements.

ANSWER: C

QUESTION NO: 4

Which of the following is in the correct order (typically)?

- A. Unit testing, system testing, acceptance testing, maintenance testing.
- B. System testing, unit testing, acceptance testing, maintenance testing.
- C. Acceptance testing, system testing, maintenance testing, unit testing.
- D. Unit testing, maintenance testing, system testing, acceptance testing.

ANSWER: A

QUESTION NO: 5

Which list of levels of tester independence is in the correct order, starting with the most independent first?

- A. Tests designed by the author; tests designed by another member of the development team; tests designed by someone from a different company.
- B. Tests designed by someone from a different department within the company; tests designed by the author; tests designed by someone from a different company.
- C. Tests designed by someone from a different company; tests designed by someone from a different department within the company; tests designed by another member of the development team.
- D. Tests designed by someone from a different department within the company; tests designed by someone from a different company; tests designed by the author.

ANSWER: C

Explanation:

This option has someone nearer to the written code in each statement. All other options are not in this order.

QUESTION NO: 6

Which of the following phases in the fundamental test process is considered to deliver a document which can be used as a major input for test process improvement? 1 credit

- A. Test planning and control
- B. Test implementation & execution

- C. Evaluating exit criteria and reporting
- D. Test project closure

ANSWER: D

QUESTION NO: 7

In a system designed to work out the employee tax to be paid:

- _ An employee has \$4,000 of salary tax free.
- _ The next \$1,500 is taxed at 10%.
- _ The next \$28,000 after that is taxed at 22%.
- _ Any further amount is taxed at 40%.

Which of these is a valid Boundary Value Analysis test case?

- A. \$28,000
- B. \$1,500
- C. \$33,501
- D. \$5,000

ANSWER: C

QUESTION NO: 8

In addition to risk, identify TWO other components of a testing strategy. 1 credit

- A. The entry and exit criteria for each test phase
- B. Test training needs for the project resources
- C. The test design techniques to be used
- D. Test performance indicators
- E. The test schedule

ANSWER: A C

QUESTION NO: 9

Independent Verification & Validation is:

- A. Done by the Developer
- B. Done by the Test Engineers
- C. Done By Management
- D. Done by an Entity Outside the Project's sphere of influence

ANSWER: D

QUESTION NO: 10

Which of the following is correct?

Debugging is:

- A. Testing/checking whether the software performs correctly.
Is a brief definition of testing.
- B. Checking that a previously reported defect has been corrected.
Is retesting.
- C. Identifying the cause of a defect, repairing the code and checking the fix is correct.
- D. Checking that no unintended consequences have occurred as a result of a fix.

Is regression testing.

ANSWER: C

Explanation:

- A. Is a brief definition of testing.
- B. Is retesting.
- D. Is regression testing.

QUESTION NO: 11

During test process improvement it is recommended to use standards where possible. Standards originate from various sources and they cover different subjects in relation to testing Pick TWO sources of software standards, useful to software testing from the ones mentioned below. 1 credit

- A. ISO 9126-1 'Software engineering- Product quality Part 1: Quality model' is an international standard, that provides a basis on which to define quality assurance solutions.
- B. ISA 4126-1 'Software engineering- Product quality Part 1: Quality model' is an international standard, that provides a basis on which to define quality assurance solutions.

C. BS-7925-2 'Software testing. Software component testing is a national standard used internationally. It covers a number of testing techniques that may be useful both on component testing level and on system testing level.

D. SY-395-01 'Standard for East Coast Hospital software' is a regional standard adapted from a national one. Besides hospital software, this standard ought to be used also by other types of software system in the region.

E. IEEE 829 'standard for software test documentation' is an international standard to be following mandatory by all testing origination regardless of lifecycle models.

ANSWER: A C

QUESTION NO: 12

Which THREE activities would be valid steps during the development of the test strategy? 2 credits (2 out of 3 correct 1 credit)

- A.** Identify test staff members that will be involved in the system test
- B.** Define test career paths
- C.** Understand the software development life cycle used by the software house
- D.** Assess the testing that needs to be done to minimize the risks
- E.** Issue the test strategy document for review
- F.** Define a master test plan template
- G.** Perform a project risk analysis

ANSWER: C D E

QUESTION NO: 13

Select THREE issues from the options provided that should at least be raised. 1 credit

- A.** Has there been sufficient comparison of tools?
- B.** What are the problems we are trying to address?
- C.** Do we have a set of tool requirements to validate the tool against?
- D.** How will the implementation be organized?
- E.** Which project will be selected to perform the tool pilot?
- F.** Is customized training available?
- G.** How will the change process be managed?

ANSWER: A B C

QUESTION NO: 14

Since the system is in the medical domain and therefore in the safety critical area, testing needs to be rigorous and evidence is required that the system has been adequately tested. Identify THREE measures that would typically be part of the test approach in this domain and which are not always applicable in other domains! 1 credit

- A. High level of documentation
- B. Failure Mode and Effect Analysis (FMEA) sessions
- C. Traceability to requirements
- D. Non-functional testing
- E. Master test planning
- F. Test design techniques
- G. Reviews

ANSWER: A B C**QUESTION NO: 15**

Which of the following would be the TWO most appropriate examples of entry criteria documented in the system integration test plan? 2 credits

- A. The percentage of decision coverage achieved during unit testing.
- B. The availability of the latest version of the capture-replay tool (for testing the interface with the newly developed test management tool).
- C. The sign-off of a performance test software release note (test item transmittal report) by both development and testing showing that system performance meets the specified acceptance criteria.
- D. The percentage of acceptance test procedures scheduled for execution.
- E. The percentage of requirements coverage achieved during system integration test.

ANSWER: A B