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QUESTION 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.

- 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

Correct Answer: ADE

QUESTION 2

Which aspect in the test estimate is the main risk in this project?

- A. Quality of the specification
- B. Availability of end-users
- C. The costs of hardware and tools
- D. Unknown input quality due to third party development

Correct Answer: D

QUESTION 3

The introduction of reviews and inspections has often failed as a process improvement action.

Identify the THREE most important measures that should be taken to reduce the risk that this test process improvement will fail.

- A. Process ownership and experienced moderators who drive the inspection process.
- B. Management support



- C. Training of those involved
- D. The availability of stands and processes
- E. Usage of a more traditional software development lifecycle
- F. Alignment with software process improvement
- G. Using a reference model, e.g. TMMi

Correct Answer: ABC

QUESTION 4

Which of the following is a benefit of independent testing?

- A. Code cannot be released into production until independent testing is complete.
- B. Testing is isolated from development.
- C. Independent testers find different defects and are unbiased.
- D. Developers do not have to take as much responsibility for quality.

Correct Answer: C

QUESTION 5

The test improvement project will take place in an organization developing a safety- critical avionics application.

Which one of the following standards do you believe would be most appropriate to take into account for compliance during your assignment?

- A. ISO 9126
- B. IEEE 829
- C. BS 7925/2
- D. DO-178B

Correct Answer: D

QUESTION 6



You have been given responsibility for the non-functional testing of a safety-critical monitoring and diagnostics package in the medical area.

Which of the following would you least expect to see addressed in the test plan?

- A. Availability
- B. Safety
- C. Portability
- D. Reliability

Correct Answer: C

QUESTION 7

Which of the following is a characteristic of good testing in any life cycle model?

- A. Analysis and design of tests begins as soon as development is completed.
- B. Some, but not all, development activities have corresponding test activities.
- C. Each test level has test objectives specific to that level.
- D. All document reviews involve the development team.

Correct Answer: C

QUESTION 8

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

- 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

Correct Answer: AC



QUESTION 9

What would be a test approach regarding the test design techniques to be applied that would fit an item with the highest risk?

- A. Component testing: decision testing; System testing: exploratory testing
- B. Component testing: decision testing; System testing: decision table testing
- C. Component testing: statement testing; System testing: equivalence partitioning
- D. Component testing: statement testing; System testing: decision table partitioning

Correct Answer: B

QUESTION 10

Which of the following is an example of testing as part of the requirements specification phase?

- A. A requirements review meeting
- B. A business analyst eliciting requirements
- C. Performing acceptance tests against requirements
- D. A test report showing requirements coverage

Correct Answer: A

QUESTION 11

Regarding the process described above, what is the most important recommendation you would make using IEEE 1044 as a guide?

- A. No priority or severity assigned
- B. Incident numbering is manual rather than automated
- C. No mentioning of reproduceability
- D. No classification on type of incident

Correct Answer: A

QUESTION 12



You have investigated different possibilities and selected four of them to present to IT management.

Which of the proposals will you most likely give your highest recommendations?

- A. Insourcing of test automation based on an offer from a local company ABC that has people who are specialists in system level capture-replay automation tools and they also do regular training courses in test automation methods and tools. They can then work closely with Vicki.
- B. Outsourcing of test automation based on an offer from an Asian company, AsiaAutoTest, which has people who are specialists in system level capture-replay automation tools. They also offer training and besides they offer to run and maintain the regression tests in the future.
- C. Internal offer from the development department of XYZ to create the regression package using CppUnit as test automation tool. One of the development groups have very good experiences in automating unit tests, and they are willing to do training as well.
- D. Solution from a tool vendor offering to educate two test team members in the use of their easy- to-use test automation capture replay tool over the first 3 month and based on that build the regression test suite. In addition to Vicki, Steve is the only one that has time available to be educated.

Correct Answer: A

QUESTION 13

A test assessment has been carried out using the selected model as a reference framework. A number of recommendations have been identified and you are asked to prioritize them. Based on your knowledge of the project, you are expecting severe resistance to change.

Which of the following would be the most important selection criterion for defining the priority of the recommendations?

- A. Synchronized with the overall long-term organizational strategy
- B. Defined according to the maturity model used
- C. Most visible to stakeholders
- D. Low costs actions first

Correct Answer: C

QUESTION 14

Based on the information given in the scenario, identify how the team could be improved most effectively?

- A. By providing training in the payroll domain
- B. By providing a workshop on test design techniques
- C. By providing specific training on the systems being tested



D. By providing training on reviewing requirements

Correct Answer: B

QUESTION 15

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!

- 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

Correct Answer: ABC

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