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iSQI CTFL-001

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Topic Break Down

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QUESTION NO: 1

Which TWO of the review types below are the BEST fitted (most adequate) options to choose for reviewing safety critical components in a software project? Select 2 options.

- A. Informal review.
- B. Management review.
- C. Inspection.
- D. Walkthrough
- E. Technical Review

ANSWER: C E

QUESTION NO: 2

Test Implementation and execution has which of the following major tasks?

- i. Developing and prioritizing test cases, creating test data, writing test procedures and optionally preparing the test harnesses and writing automated test scripts.
 - ii. Creating the test suite from the test cases for efficient test execution.
 - iii. Verifying that the test environment has been set up correctly.
 - iv. Determining the exit criteria.
- A. i, ii, iii are true and iv is false
 - B. i, iv are true and ii is false
 - C. i, ii are true and iii, iv are false
 - D. ii, iii, iv are true and i is false

ANSWER: A

QUESTION NO: 3

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: 4

Identify THREE items that would be part of the work-breakdown structure showing the key testing activities for the acceptance test project. 2 credits (for 2 out of 3 correct 1 credit)

A. Test planning, test case preparation and test execution for each of the four iterations

B. Work should be explicitly allocated to test completion, test management, installation and to training on using the system

C. Activities to deploy the system in the user environment

D. Regression testing in the second, third and fourth iterations

E. Development activities for unit and integration testing

F. Reviews on requirements documentation

G. Defining test environment requirements for system testing

ANSWER: A B D

QUESTION NO: 5

Pick the best definition of quality:

A. Quality is job one

B. Zero defects

C. Conformance to requirements

D. Work as designed

ANSWER: C

QUESTION NO: 6

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. 2 Credits (for 2 out of 3 correct 1 credit)

- 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

ANSWER: A B C

QUESTION NO: 7

Who is responsible for conducting test readiness review..?

- A. Project Manager
- B. Test Engineer
- C. Test Manager
- D. None of the above

ANSWER: C

QUESTION NO: 8

One of the roles in a review is that of moderator, which of the following best describes this role?

- A. Plans the review, runs the review meeting and ensures that follow-up activities are completed.
- B. Allocates time in the plan, decides which reviews will take place and that the benefits are delivered.
- C. Writes the document to be reviewed, agrees that the document can be reviewed, and updates the document with any changes.
- D. Documents all issues raised in the review meeting, records problems and open points.

ANSWER: A

QUESTION NO: 9

Why is independent testing important? [K1]

- A. Because independent testers make fewer assumptions than developers
- B. Because independent testers are isolated from the development team
- C. Because independent testers can verify assumptions made during specification and implementation of the system
- D. Because independent testers have a greater sense of responsibility for quality than developers

ANSWER: C

QUESTION NO: 10

A garden irrigation system allows the user to specify 2 inputs:

1. Frequency - The number of times the system should be automatically switched on per day; minimum once per day, maximum 5 times
2. Duration - The duration of operation, in whole minutes, each time it is switched on; ranging from 1 to 60

Applying 2-value boundary value analysis which of the following options has the correct test set of valid and invalid boundary values?

- A. Frequency 1, 5; Duration 1, 60
- B. Frequency 0, 1, 5, 6; Duration 59 seconds, 1 minute, 60 minutes, 60 minutes 1 second
- C. Frequency 0, 1, 5, 6; Duration 0, 1, 30, 60, 61
- D. Frequency 0, 1, 2, 5, 6; Duration 0, 1, 30, 60, 61

ANSWER: B

QUESTION NO: 11

Which of the following would typically be identified using static analysis by tools? [K1]

- A. Spelling mistake on an error message
- B. A potential infinite loop
- C. Memory leakage
- D. A variable set to the wrong value

ANSWER: B

QUESTION NO: 12

Part of the testing strategy indicates that you are going to be using systematic test design techniques. Your manager has asked that you present the main advantages of using these techniques at the next board meeting. Identify THREE main benefits of using systematic test design techniques within this company. 2 credits (for 2 out of 3 correct 1 credit)

- A. Easier to quickly adapt testing to changing requirements compared to experienced-based testing
- B. Targets certain types of faults
- C. Will guide experienced testers to find defects
- D. Provides a way to differentiate depth of testing based on product risks by using different techniques
- E. More enhanced documentation and therefore higher repeatability and reproducibility
- F. Will make non-systematic testing redundant
- G. Will reduce the need for early reviews

ANSWER: B D E

QUESTION NO: 13

Within the projects, a master test plan and phase test plan will be used. Following is a list of characteristics applicable for test plans:

- a. Any deviation from the procedures described in the test
- b. strategy document
- c. The overall estimated costs, timescales and resource
- d. requirements
- e. A detailed schedule of testing activities
- f. The development deliverables to be tested
- g. Which test staff members (names) will be involved and when
- h. Level of requirements coverage achieved

Which TWO of the above mentioned characteristics relate to the phase test plan? 1 credit

- A. a
- B. b
- C. c
- D. d
- E. e
- F. f

ANSWER: C E

QUESTION NO: 14

Which of the following represents good testing practice for testers, irrespective of the software lifecycle model used?

- A. They should start test analysis when the corresponding development level is complete
- B. They should be involved in reviewing requirements or user stories as soon as drafts are available
- C. They should ensure that the same test objectives apply to each test level
- D. They should minimize the ratio of development levels to test levels to reduce project costs

ANSWER: D

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