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Question 1

Question Type: MultipleChoice

A class grade application for instructors assigns letter grades based on students' numerical grades. The letter grades for different numerical grades should be:

Above 89. up to 100 -- A

Above 79. up to 89 - B

Above 69. up to 79 -- C

Above 59. up to 69 - D Below 60 - F

Which of the following sets of test inputs would achieve the relatively highest equivalence partition coverage?

Options:

A- 0, 58, 59, 70, 80

B- 69, 79, 80, 89, 90

C- 74, 79, 84, 85, 89

D- 79,89,90,99,100

Answer:

B

Explanation:

The correct answer is B, as it achieves the highest equivalence partition coverage. Equivalence partitioning is a black-box test technique that divides the input domain into partitions of equivalent data from which test cases can be derived¹. In this case, the input domain is the numerical grades, and the partitions are the ranges of grades that correspond to different letter grades. Option B covers all five partitions, as it includes test inputs from each range. Option A covers only four partitions, as it does not include any test input from the range above 89. Option C covers only three partitions, as it does not include any test input from the ranges above 79 and below 60. Option D covers only two partitions, as it does not include any test input from the ranges below 79. Reference: ¹, Section 4.2.3

Question 2

Question Type: MultipleChoice

Which of the following BEST matches the descriptions with the different categories of test techniques?

1. Test cases are based on the test basis which may include the requirements, use cases and user stories
2. Test cases are based on the test basis which may include the software architecture or code

3. Test cases can show deviations from the requirements
4. These test techniques are applicable to both functional and non-functional testing
5. Tests are based on knowledge of developers, users and other stakeholders

Black - Black-box test techniques White - White-box test techniques Experience - Experience-based test techniques

Options:

- A- Black -1.2 White - 3. 4 Experience - 5
- B- Black -2.3 White -1.5 Experience - 4
- C- Black -2.3 White - 1 Experience - 4. 5
- D- Black -1.3.4 White - 2 Experience - 5

Answer:

D

Explanation:

The correct matching of the descriptions with the different categories of test techniques is as follows:

Black-box test techniques: Test cases are based on the test basis which may include the requirements, use cases and user stories (1), Test cases can show deviations from the requirements (3), These test techniques are applicable to both functional and non-functional testing (4)

White-box test techniques: Test cases are based on the test basis which may include the software architecture or code (2)

Experience-based test techniques: Tests are based on knowledge of developers, users and other stakeholders (5)

Therefore, option D is the correct answer. Options A, B, and C are incorrect, as they do not match the descriptions with the different categories of test techniques correctly.

Question 3

Question Type: MultipleChoice

Which of the following provides the BEST description of statement coverage?

Options:

A- A black-box test technique which uses a state table to derive test cases

- B-** An experience-based test technique in which test cases are based on the tester's knowledge of past failures
- C-** A white-box test technique which focuses on the percentage of executable statements that has been executed by a test suite
- D-** A white-box test technique which covers the decision results which determine the next statement to be executed

Answer:

C

Explanation:

Statement coverage is a white-box test technique which focuses on the percentage of executable statements that has been executed by a test suite. This is the best description of statement coverage, as it measures how many statements in the source code have been covered by one or more test cases. Option A is incorrect, as it describes state transition testing, which is a black-box test technique that uses a state table to derive test cases. Option B is incorrect, as it describes error guessing, which is an experience-based test technique in which test cases are based on the tester's knowledge of past failures. Option D is incorrect, as it describes decision coverage, which is a white-box test technique that covers the decision results which determine the next statement to be executed.

Question 4

Question Type: MultipleChoice

You are responsible for applying the correct technique (or a review of the requirements document for a project to develop a new software application. You identify the reviewers and the required roles, including the meeting leader, who is the requirements document author, and a separate role for a scribe. Additionally, you decide to take a relatively informal approach to the requirements review. The goal of the review is to find defects in the requirements document, such as omissions, inconsistencies, and duplications. Another goal of the review is to improve the software application's usability and accessibility by considering the various stakeholders' viewpoints.

Which of the following statements BEST describes this scenario?

Options:

- A-** This scenario is using a pair review type and a perspective-based review technique
- B-** This scenario is using a walkthrough review type and a perspective-based review technique
- C-** This scenario is using a walkthrough review type and a checklist-based review technique
- D-** This scenario is using a pair review type and a checklist-based review technique

Answer:

B

Explanation:

This scenario is using a walkthrough review type and a perspective-based review technique. A walkthrough is a type of review that is relatively informal and led by the author of the work product. A perspective-based review technique is a technique that involves

reviewing the work product from different viewpoints or perspectives of various stakeholders. The scenario matches these descriptions, as it involves an informal approach, a meeting leader who is the author of the requirements document, and a goal of improving the software application's usability and accessibility by considering the various stakeholders' viewpoints. Option A is incorrect, as a pair review is a type of review that involves only two people, usually the author and another team member. Option C is incorrect, as a checklist-based review technique is a technique that involves reviewing the work product against a predefined list of items or criteria. Option D is incorrect, as it combines the incorrect descriptions of options A and C.

Question 5

Question Type: MultipleChoice

Given the following review types and review characteristics:

- a. Pair review
 - b. Walkthrough
 - c. Technical review
 - d. Inspection
1. Formal
 2. Informal

3. Purpose includes gaining consensus

4. Purposes include improving the software product and training the review participants

Which of the following BEST matches the review type with the review/ characteristic?

Options:

A- a-4, b-3, c-2, d-1

B- a-1, b-4, c-3, d-2

C- a-2, b-3, c-4, d-1

D- a-2, b-4, c-3, d-1

Answer:

C

Explanation:

The correct matching of the review types with the review characteristics is as follows:

Pair review: Informal (2)

Walkthrough: Purpose includes gaining consensus (3)

Technical review: Purposes include improving the software product and training the review participants (4)

Inspection: Formal (1)

Therefore, option C is the correct answer. Options A, B, and D are incorrect, as they do not match the review types with the review characteristics correctly.

Question 6

Question Type: MultipleChoice

Which of the following CORRECTLY matches the roles and responsibilities in a formal review?

Options:

- A- Review Leader - Creates the work product under review
- B- Scribe --- Collates potential defects found during the individual review activity
- C- Author --- Identify potential defects in the work product under review
- D- Facilitator --- Fixes defects in the work product under review

Answer:

B

Explanation:

The correct roles and responsibilities in a formal review are as follows1:

Review Leader - Plans and leads the review process

Scribe - Documents all issues raised during the review meeting

Author - Creates the work product under review

Facilitator - Supports the review leader in conducting the review process

Reviewers - Identify potential defects in the work product under review

Therefore, option B is the correct answer, as it correctly matches the role of scribe with the responsibility of collating potential defects found during the individual review activity. Options A, C, and D are incorrect, as they do not match the roles and responsibilities correctly.

Reference:1, Section 3.2.3

Question 7

Question Type: MultipleChoice

Given the following review process main activities and specific review activities:

- a. Planning
 - b. Initiate review
 - c. Issue communication and analysis
 - d. Fixing and reporting
1. Creating defect reports
 2. Estimating effort and timeframe
 3. Recording updated status of defects
 4. Selecting the people to participate
 5. Distributing the work product and other material
 6. Evaluating the review findings

Which of the following BEST matches the review process main activities with the appropriate specific review activities?

Options:

A- 2-a, 5-a, 1-b, 4-b, 3-c, 6-d

B- 2-a, 4-a, 5-b, 6-c, 1-d, 3-d

C- 1-a, 4-b, 5-b, 6-c, 2-d, 3-d

D- 2-a, 4-b, 5-c, 1-d, 3-d, 6-d

Answer:

B

Explanation:

The correct matching of the review process main activities with the appropriate specific review activities is as follows¹:

Planning: Estimating effort and timeframe (2), Selecting the people to participate (4)

Initiate review: Distributing the work product and other material (5)

Issue communication and analysis: Evaluating the review findings (6)

Fixing and reporting: Creating defect reports (1), Recording updated status of defects (3)

Therefore, option B is the correct answer. Options A, C, and D are incorrect, as they do not match the review process main activities with the appropriate specific review activities correctly. Reference:1, Section 3.2.2

Question 8

Question Type: MultipleChoice

Which of the following statements BEST states the value of static testing?

Options:

- A- It can prevent defects later in design and coding by uncovering issues in requirements
- B- It is most effective when performed after dynamic testing
- C- It can detect the same defects as those found by dynamic testing
- D- It can eliminate the need for unnecessary team member communication

Answer:

A

Explanation:

Static testing can prevent defects later in design and coding by uncovering issues in requirements¹. This is the best statement of the value of static testing, as it can save time and money by finding defects early in the development process¹. Option B is incorrect, as static testing is most effective when performed before dynamic testing¹. Option C is incorrect, as static testing can detect different types

of defects than those found by dynamic testing, such as inconsistencies, ambiguities, omissions, and incompleteness¹. Option D is incorrect, as static testing can improve team member communication by facilitating reviews and inspections¹. Reference: ¹, Section 3.1

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