

ATA.37q

Number: ATA
Passing Score: 800
Time Limit: 120 min

ATA



Advanced Test Analyst

Exam A

QUESTION 1

A temperature unit holds the temperature between 10 degrees Celcius and –10 degrees Celcius. If the temperature drops below –10 or rises above 10 then an alarm rings. Boundary Value Analysis tests are drawn up using the approach of two test cases per boundary. The temperatures to be tested are:

- A. 11, 10, -11, -10
- B. 11, 10, 9, -11, -10, -9
- C. 11, 9, -9, -11
- D. 10, 9, -9, -10

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Using the “Tax System” specification scenario as described above, using boundary value analysis, which would be the most interesting test set to explicitly test one single boundary value as defined in the “Tax System” specification?

<i>Test set (i)</i>		
Civil Status	Salary	Number of Children
<i>Married</i>	<i>€ 20.000</i>	<i>4</i>
<i>Not Married</i>	<i>€ 22.000</i>	<i>3</i>
<i>Married</i>	<i>€ 18.000</i>	<i>2</i>
<i>Test set (ii)</i>		
Civil Status	Salary	Number of Children
<i>Not Married</i>	<i>€ 19.000</i>	<i>8</i>
<i>Not Married</i>	<i>€ 20.000</i>	<i>6</i>
<i>Married</i>	<i>€ 50.000</i>	<i>4</i>
<i>Test set (iii)</i>		
Civil Status	Salary	Number of Children
<i>Married</i>	<i>€ 20.000</i>	<i>10</i>
<i>Not Married</i>	<i>€ 22.000</i>	<i>5</i>
<i>Not Married</i>	<i>€ 20.001</i>	<i>0</i>
<i>Test set (iv)</i>		
Civil Status	Salary	Number of Children
<i>Not Married</i>	<i>€ 22.000</i>	<i>1</i>
<i>Not Married</i>	<i>€ 18.000</i>	<i>2</i>
<i>Married</i>	<i>€ 18.000</i>	<i>3</i>

- A. (i)
- B. (ii)
- C. (iii)
- D. (iv)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A company wants to develop a web site to implement an on-line sales channel. The company has decided to do some usability testing, but resources are limited. The usability testing has therefore to be done as efficient as possible. Which THREE techniques would you recommend?



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- A. SUMI
- B. Usability laboratory
- C. Use case testing
- D. Heuristic evaluation
- E. Equivalence partitioning
- F. Pairwise testing
- G. Exploratory testing

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Which of the following criteria on test progress would enable the business to determine a likely 'go live' date?

- (i) Number of tests planned versus number of tests executed
- (ii) Number of high priority defects outstanding
- (iii) The test team's timesheets in order to show how much effort has been devoted to testing
- (iv) Number of tests passed and number failed
- (v) Number of defects found in each development area
- (vi) The rate at which defects are being found

- A. (ii), (iii), (iv)
- B. (i), (iii), (v)
- C. (i), (ii), (vi)
- D. (iv), (v), (vi)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

The use case will be used as a basis for the design of usability test scenario's. As a tester you are asked to review the ATM use case from the perspective of usability testing.

As a tester you are asked to review the ATM use case provided below. The use case will be used as a basis for functionality testing to be performed later.

System:	XYZ Bank ATM
Goal of test	The goal of this use case is to test the withdrawal of cash from the ATM
Description	Context: This is core functionality, so this is an important test of a frequent usage function
	Actors: Any user may use this function
Preconditions	The ATM is on and functional The user has a current debit card
Description of use case flow	ATM start screen is showing <ol style="list-style-type: none"> 1. the user inserts card 2. the user types in PIN 3. the user selects "cash with receipt" 4. the user selects £50 5. the user selects "no further service"
Expected results	The ATM returns the card, delivers £50 and a receipt, clears the screen and displays the start screen
Failure conditions	On screen instructions not clearly displayed On screen instructions not simple to follow Card not returned (see functional tests)
Additional attention points	Note response times

Which one of the comments, described hereafter, would be the MOST important one you would make?

- A. Acceptance criteria not defined
- B. Business priority is missing
- C. Post condition not defined
- D. Alternative flows are missing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Tax system

A tax system needs to be updated due to new legislation. For a person with a salary of less than € 20.000 and who is married, the tax needs to be re-calculated. If the person also has more than two and less than five children, an additional 10% reduction is applicable.

How many input classes can be distinguished when applying equivalence partitioning to the "Tax System" specification?

- A. 5
- B. 6
- C. 7
- D. 8

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A new banking system has 2 customers' types, 2 account types and will operate in two different countries?

How many test cases will be needed using the pair wise testing technique and the appropriate 2-wise orthogonal array?

- A. 2
- B. 4
- C. 5
- D. 8

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Ken, an entrepreneur in Leeds finds the quality of the tea locally available so low, that he decides to research superior teas around the world. He decides to market, sell and distribute these superior teas via the web. His market strategy is to offer superior products on a well-designed website with graphics that are fast to load, has high availability, superior usability and fast response times.

The website will offer the following:

- An innovative interactive catalogue of teas, which not only enables customers to buy the product, but also enables them to provide feedback by rating the teas (which will influence his stock purchasing levels)

- Provide the customer with the ability to use secure credit card transactions

- Provide the customer to give general feedback

Ken selects an iterative model for the development of the prototypes. The team consists of three developers that are experienced in web development. Ken, although he doesn't have technical skillset, is concerned with quality. He doesn't believe a lot of documentation is necessary and he wants the website to be completed quickly.

The test basis contains the following:

- Story boards that show the information flow and page links through the site

- HTML pages developed to date.

- A statement of non-functional requirements.

With the strategy taking shape, Ken asks your advice on the specific testing techniques that should be used to complete the required testing, bearing in mind the nature of the application and the nature of Ken's overall objectives.

We now make the assumption that in the scenario described as above, exploratory testing was selected as being the main test technique. You have now been given the task of specifying, executing and recording the exploratory test sessions.

Select TWO of the options below to define what you will typically use for specifying, executing and recording the sessions?

- A. Record the results in email and send the email to the test manager.
- B. Use external testers on the team to provide a new approach and fresh view to the testing effort.
- C. Create test charters for planned test session.
- D. Use debriefing sessions with stakeholders and other testers to discuss the findings and new risks identified.
- E. Define concrete test cases to be executed by the developers.

Correct Answer: CD

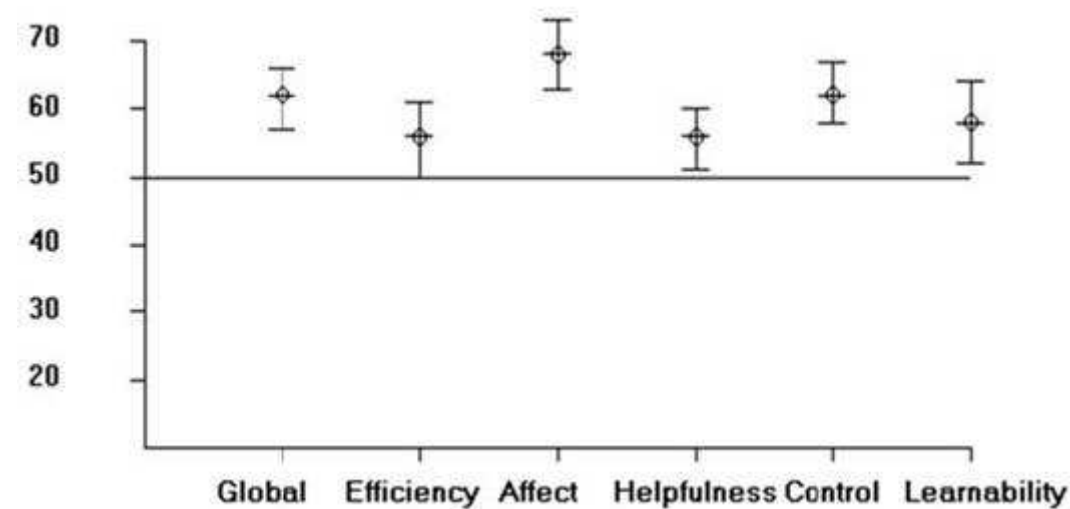
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Explanation

Explanation/Reference:

QUESTION 9

A SUMI test was performed at an early stage within the system test. Hereafter you find the results of the SUMI test.



Based on these results, what would you recommend as the most appropriate approach for usability testing?

- A. Since the SUMI scores are largely above market average no further action on usability is needed
- B. Since the standard deviation of most SUMI scales is much too large, a new SUMI test must be performed
- C. Since the scores are not really showing a high level of user-satisfaction additional usability testing based on use case is needed
- D. Since the SUMI results do not provide details, an additional focused heuristic evaluation on the lower scales is recommended

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which of the following is a type of testing that someone in the role of a test analyst, working with the test manager, should typically consider and plan for?

- A. Security testing
- B. Reliability testing
- C. Accessibility testing
- D. Performance testing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Which of the following is a typical work product that the Test Analyst would deliver as part of the test closure activities?

- A. A list of all deferred defects
- B. A list of all rejected defect reports
- C. A list of all defects found in production and fixed in this release
- D. A list of all resolved defects

Correct Answer: A

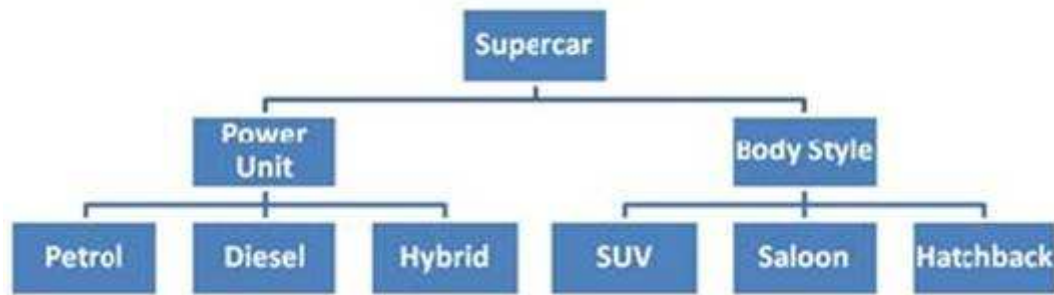
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Explanation

Explanation/Reference:

QUESTION 12

Study the "Supercar" classification tree, which of the following statements is correct?



- A. The classification tree is correct and complete
- B. The options for "in stock" are missing
- C. Order information is missing
- D. The error message is missing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Which of the following tasks and responsibilities do NOT belong to that of a test analyst in the context of evaluating exit criteria and reporting?

- A. The test analyst should be able to use the reporting tools
- B. The test analyst is responsible for supplying accurate information
- C. The test analyst will contribute to the final report at the end of the testing
- D. The test analyst should write final test reports objectively

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

You are a test analyst in the banking domain. You have received the following requirement:

"The system shall allow cash advances of at least 200 Euros for all supported credit cards. The correct list of credit cards is American Express, Diners, VISA, Mastercard and Eurocard.

Which one of the findings described below is true regarding this requirement?

- A. The requirement is ambiguous in terms of supported cards
- B. The paragraph indicates potential performance problems
- C. The paragraph is unclear in terms of advance limits
- D. The paragraph indicates potential usability problems

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

You are applying pairwise testing and using orthogonal arrays. The following steps are all part of the process to be followed

i) Determine the number of choices for each variable ii) Map the test problem onto the orthogonal array iii) Construct the test cases iv) Identify the variables v) Locate an appropriate orthogonal array

What is the correct order of the above mentioned process steps?

- A. i, ii, iv, v, iii
- B. iv, ii, v, iii, i
- C. iv, i, iii, v, ii
- D. iv, i, v, ii, iii

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Consider the following description in a defect report "Nasty bug trashed contents of new file that I created by formatting some text in symbol font, wasting my time."

Which TWO of the following comments would you immediately make based on the defect description above?

- A. Needs to be neutralized
- B. Steps to reproduce are unclear
- C. No attempt to isolate the defect
- D. More than one defect in one report
- E. Possible duplicate

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

During the test execution defects are found on non-compliance to requirements, calculations that produce incorrect results, and improper handling of data or situations.

Which of the following test types is most likely being performed?



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- A. Usability testing
- B. Interoperability testing
- C. Accuracy testing
- D. Suitability testing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 18

A car navigation system needs to be integrated in the overall car software. Interoperability testing is thus considered to be important. Which of the following techniques is most likely to be used to support interoperability tests?

- A. Equivalence Partitioning
- B. Statement testing
- C. Vulnerability Scan
- D. Defect Taxonomies

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

A company offering house insurance policies has several policy options. They depend on the following factors:

-Building type: house, semi-detached, apartment building, cottage

Material: wood, concrete, brick, mixed

Location: city, suburb, countryside, wilderness

It has been decided to use the pair wise test technique and apply 2-wise coverage. To design the test case an appropriate orthogonal array needs to be located. Which of the following orthogonal arrays is to be selected for testing the house insurance policies?

A.

	1	2	3	4	5
1	1	1	1	1	1
2	1	2	3	3	1
3	1	3	2	3	2
4	1	2	2	1	3
5	1	3	1	2	3
6	1	1	3	2	2
7	2	2	2	2	2
8	2	3	1	1	2
9	2	1	3	1	3
10	2	3	3	2	1
11	2	1	2	3	1
12	2	2	1	3	3
13	3	3	3	3	3
14	3	1	2	2	3
15	3	2	1	2	1
16	3	1	1	3	2

B.

	1	2	3	4	5	6	7	8
1	1	1	1	1	1	1	1	1
2	1	1	2	2	2	2	2	2
3	1	1	3	3	3	3	3	3
4	1	2	1	1	2	2	3	3
5	1	2	2	2	3	3	1	1
6	1	2	3	3	1	1	2	2
7	1	3	1	2	1	3	2	3
8	1	3	2	3	2	1	3	1
9	1	3	3	1	3	2	1	2
10	2	1	1	3	3	2	2	1
11	2	1	2	1	1	3	3	2
12	2	1	3	2	2	1	1	3
13	2	2	1	2	3	1	3	2
14	2	2	2	3	1	2	1	3
15	2	2	3	1	2	3	2	1
16	2	3	1	3	2	3	1	2
17	2	3	3	1	3	1	2	3
18	2	3	3	2	1	2	3	1

c.

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	4
5	2	1	2
6	2	2	3
7	2	3	4
8	2	4	1
9	3	1	3
10	3	2	4
11	3	3	1
12	3	4	2
13	4	1	4
14	4	2	1
15	4	3	2

D.

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	3
5	2	1	2
6	2	2	3
7	2	3	2
8	2	4	1
9	3	1	3
10	3	2	1
11	3	3	1
12	3	4	2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A specification states: "If the fossil is Jurassic in origin then it must be catalogued under Mesozoic post Triassic and cross referred to politic limestone.

If it is a tooth, then it must be catalogued under Dental remains. If the fossil is both Jurassic in origin and a tooth it will be catalogued under Mesozoic post Triassic and cross referred to politic limestone only. "

The tester analyses this for decision table testing and finds the following conditions and actions:

C1: Jurassic C2: tooth A1: Catalogue as Mesozoic post Triassic A2: Cross refer to politic limestone A3: Catalogue as Dental remains

How many test cases will a collapsed decision table have?

- A. 2
- B. 3
- C. 4
- D. 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

While identifying scenario's for the use case "copy A4 – A4" for a new copier, the following scenario's were identified:

Basic scenario: single side to single side

Deviations: single side to double side, copy of a set, copy using the automatic document feeder

Failures: no paper in paper tray, paper jam, out of staples

How many test cases will be needed to achieve minimum coverage?

- A. 1
- B. 4
- C. 5

D. 7

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Which of the following statements is TRUE with respect to when the test analyst should become involved during different lifecycle models?

- A. In a sequential V-model project the test analyst should start test analysis and design concurrently with coding
- B. In Agile projects the test analyst should start test analysis and design concurrently with coding
- C. In a sequential model project the test analyst should start test analysis and design concurrently with software design
- D. In an embedded iterative model the test analyst should expect to be involved in the standard planning and design aspects

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Analyzing the requirement, "The system shall allow cash advances of at least 200 Euros for all supported credit cards. The correct list of credit cards is American Express, Diners, VISA, Mastercard and Eurocard." There are arguments to be made for several test design techniques. Which of the following test design techniques is LEAST likely to be used for identifying test cases for the requirement?

- A. Boundary value analysis
- B. Equivalence Partitioning
- C. Classification Tree Method
- D. State Transition Testing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

How do user stories and testing relate in an agile project?

- A. User stories provide the flow of events which are to be used by the tester to define test cases.
- B. User stories provide the user requirement and acceptance criteria being two important inputs for the tester.
- C. The tester will typically gather and document the user stories, and use them for testing.
- D. User stories drive the regression test.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Apart from state transition testing, which other specification-based technique would you additionally choose to test the interfaces between components of “Route Calculation” and thus typically find different types of defects?
Identify the MOST likely technique from the following list.

- A. Equivalence Partitioning
- B. Use Case Testing
- C. Orthogonal Arrays
- D. Decision Testing

Correct Answer: A

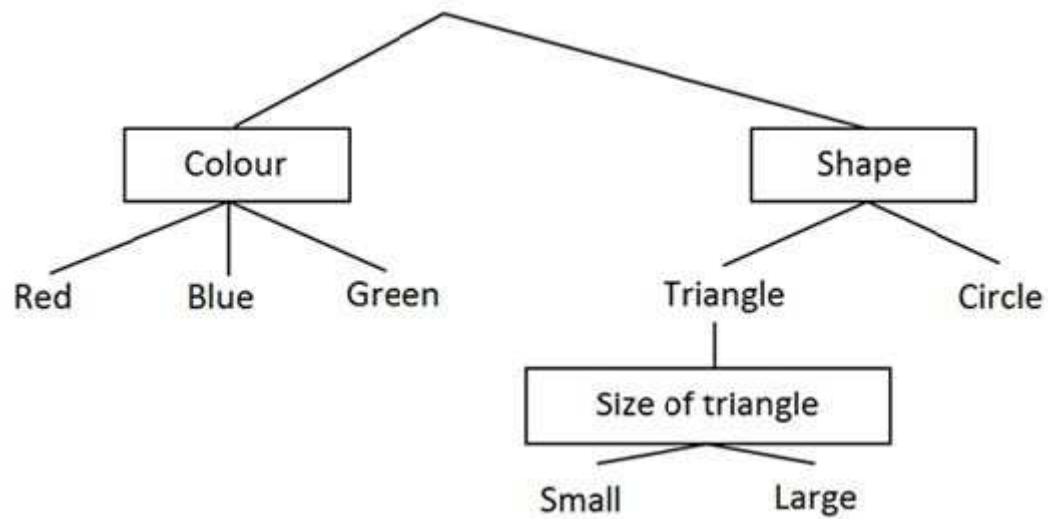
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Explanation

Explanation/Reference:

QUESTION 26

Based on the classification tree show below, how many test cases are required using the classification tree method?



- A. 2
- B. 3
- C. 4
- D. 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Which of the following statements fits the principles of experience-based testing?

- A. Coverage calculations can be used to determine the amount of testing required
- B. Different people will have a different experience level regarding usability testing
- C. Models can be used to derive the required test cases
- D. Experience in test execution is more important than experience in test design

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Tax system

A tax system needs to be updated due to new legislation. For a person with a salary of less than € 20.000 and who is married, the tax needs to be re-calculated. If the person also has more than two and less than five children, an additional 10% reduction is applicable.

How many cases are required to test the "Tax system" specification using a decision table which is not collapsed?

- A. 2
- B. 4
- C. 6
- D. 8

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Which of the following comments would be the MOST important one you would make?

- A. Description of flow is not detailed enough
- B. Specific characteristics of actor(s) are missing
- C. No usability acceptance criteria
- D. User tasks not defined

Correct Answer: B

Section: (none)

Explanation

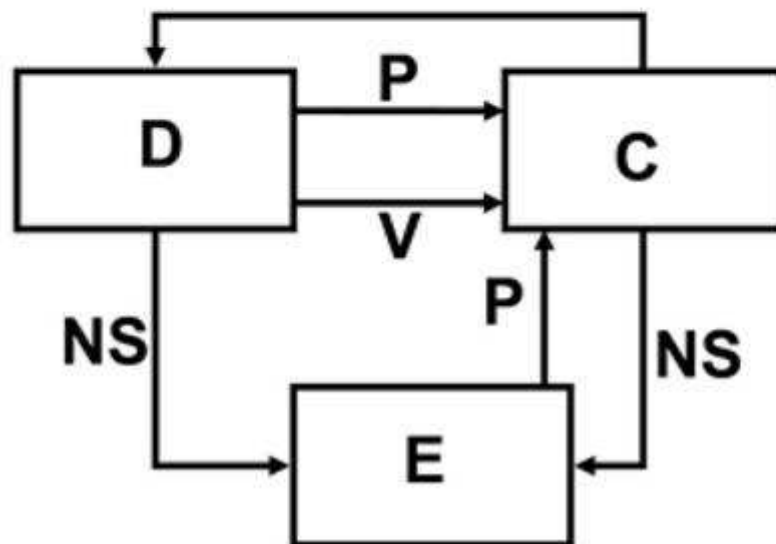
Explanation/Reference:

QUESTION 30

Using the state diagram (based on the “Route Calculation”), how many test cases are needed to achieve 1-switch coverage?

	Position	Velocity	Updated	No Signal
Displaying	Calculating	Calculating	-	Error
Calculating	-	-	Displaying	Error
Error	Calculating	-	-	-

U



- A. 9
- B. 10

- C. 11
- D. 12

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

As a test analyst you are involved in the early stages of an acceptance test for a Product Data Management system. You are asked to write test designs and test cases based on use cases. An early version of the system is also already available. It is a known fact that on the implementation level many things will change (including the user-interface). The tests will be carried by end-users with much domain knowledge who have also been involved in the project defining the user requirements and reviewing documentation.

What is the BEST option regarding the level of detail and documentation required for test cases in the project?

- A. Detailed concrete test cases since many re-runs of the tests are expected
- B. Logical test cases supported by concrete test cases to allow for traceability and enable future changes
- C. Concrete test cases only since the end-users have extensive domain knowledge
- D. Logical test cases only since the end-user have extensive domain knowledge and many changes are expected thus reducing testware maintenance effort

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

A new web site must operate correctly with different browsers (Internet Explorer, Google Chrome, Firefox, Netscape, Mozilla), using different plug-ins (Realplayer, Mediaplayer), will be receiving pages from different servers (IIS, Apache and WebLogic) and will be running on various server operation systems (windows 2007, XP, Linux)

Which of the following test techniques will you use to test this new web site in its various environments?

- A. pairwise testing
- B. exploratory testing
- C. use case testing
- D. decision table testing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

Your test team is currently executing interoperability testing. Consider the following excerpt from the failure description of an interoperability defect report:

- Connect external camera to a Windows Vista PC.
- Start the camera application on the PC. Application starts normally and recognizes connected camera.
- Attempt to download the recorded data from the camera.
- Data does not download.
- Attempt to download the data three times. Data will not down—load.

Based on this information alone, which of the problems described hereafter exists in this defect report?

- A. Lack of structured testing
- B. Inadequate classification information
- C. Insufficient isolation
- D. Poorly documented steps to reproduce

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Consider the following decision table,

	1	2	3	4	5	6	7	8
C1	1	1	1	1	0	0	0	0
C2	1	1	0	0	1	1	0	0
C3	1	0	1	0	1	0	1	0
A1	X	X						
A2	X							

How many cases are left when this decision table is collapsed?

- A. 2
- B. 3
- C. 4
- D. 5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Working together with the test manager during test planning, which of the following activities is NOT expected to be performed by the test analyst?

- A. Review the test estimates of the test manager
- B. Review the test plan for non-functional testing

- C. Organize adequate test resources
- D. Being involved in risk management sessions

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which of the following is the LEAST appropriate action to mitigate product risks for a web application?

- A. Initiate reviews of test design
- B. Use professional and skilled testers with appropriate technical knowledge
- C. Run tests in multiple operational environments
- D. Allocate more time to high risk areas

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

You are working as a tester on a project to develop a point-of-sales system for grocery stores. Which of the following is a product risk that could be identified for such a system?

- A. The arrival of a more reliable competing product on the market
- B. Delivery of an incomplete test release to the first cycle of system test
- C. An excessively high number of defect fixes fail during re-testing
- D. Failure to accept allowed credit cards

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



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