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



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**ATA**

**Advanced Test Analyst**

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## **Exam A**

### **QUESTION 1**

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 2

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 3**

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 4**

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.

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

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 6**

To enhance both the effectiveness and efficiency of the test design phase the purchase of a test design tool is being considered. Which one of the statements hereafter best characterizes a test design tool?

- A. It validates models of the software
- B. It enables tests to be executed automatically
- C. It enables individual tests to be traced to requirements
- D. It generates test inputs or executable tests from requirements

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 7**

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**

**Section: (none)**

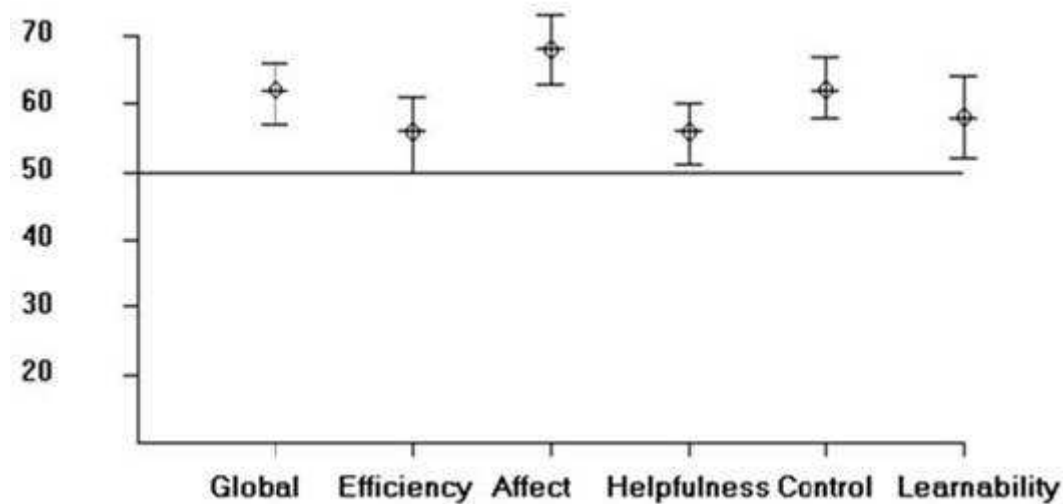
**Explanation**



**Explanation/Reference:**

**QUESTION 8**

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 9**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

You are starting to review some of the incident reports that have been submitted as a result of test execution.

Description	<i>Strange tab behaviour and wrong error message</i>	Date	<i>12 August 2009</i>
Tester	<i>Mr. Bug</i>	Priority	<i>Medium</i>
Test case ID	<i>02.05</i>	Severity	<i>Low</i>

Which THREE of the comments would be your main findings when you have reviewed the following incident report?



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- A. Should have been two defect reports

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- B. Ambiguous description
- C. Both severity and priority do not make sense
- D. Actual cause is missing
- E. Reproducibility is not indicated
- F. Defect type is missing
- G. Date to be fixed not defined

**Correct Answer:** ABE

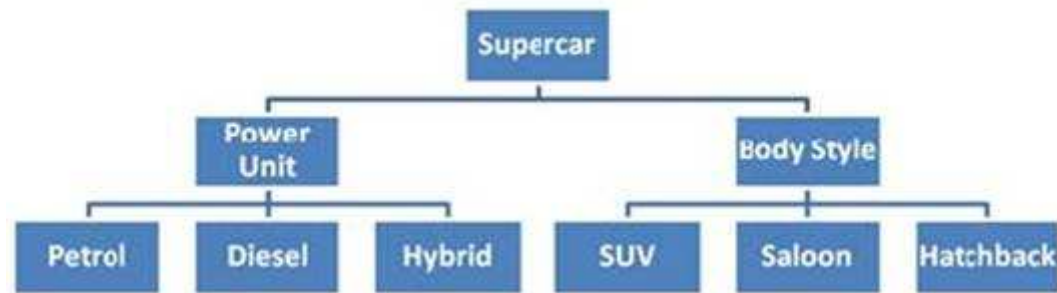
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

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 12**

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 13**

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 14**

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 15**

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?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

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 17**

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 18**

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 19**

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 20**

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



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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

For an ATM banking project introduced earlier, "When the user first inserts a valid credit card type, the system considers the user to be in an unauthenticated state. When requesting a cash advance, the user must be in an authenticated state. The user authenticates by entering the proper PIN code. When authenticating the user, the system shall allow the user to enter their PIN code up to three times before failing the authentication and rejecting the card. On the first and second try, the system shall prompt the user to re-enter the PIN code."

Suppose you are concerned that, depending on the exact number of invalid PIN codes entered, the system might behave improperly. Which of the following test design techniques is specifically targeted at such failures?

- A. Equivalence Partitioning extended by boundary value analysis

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- B. Pairwise Testing with orthogonal arrays
- C. State Transition Testing using 1-switch coverage
- D. Classification Tree Method

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 22

Supercar is an online vehicle sales website specializing in a single manufacturer's Sports Utility Vehicles (SUVs) and saloons. A vehicle has two key elements, power unit and body style. The manufacturer offers three choices of power unit: petrol, diesel and hybrid. There are 3 main body styles:

Saloon, Hatchback and SUV.

SUVs only come as petrol and diesel options.

Hybrid is available for Hatchback only.

The site will allow an order to be processed if at least one of the chosen vehicle configuration is in stock, otherwise a message will be displayed asking the user to try again later.

As a tester you are asked to review the "Supercar" specification before starting to design the corresponding test cases.

Which of the comments below would you make?

- A. I have no comments, specification looks ok
- B. Boundaries for stock levels are ambiguous
- C. Dependencies power unit and body styles are ambiguous
- D. It is not clear which message will be displayed when "out of stock"

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 23

As part of defining an approach the usability, acceptance criteria need to be defined. Which of the following acceptance criteria would be appropriate for operability?

- A. Percentage of participants who completed each task correctly

- B. Mean extent to which each task was completely and correctly achieved, scored as a percentage
- C. Mean time taken to complete each task (for correctly completed tasks)
- D. SUMI user satisfaction score

**Correct Answer:** C

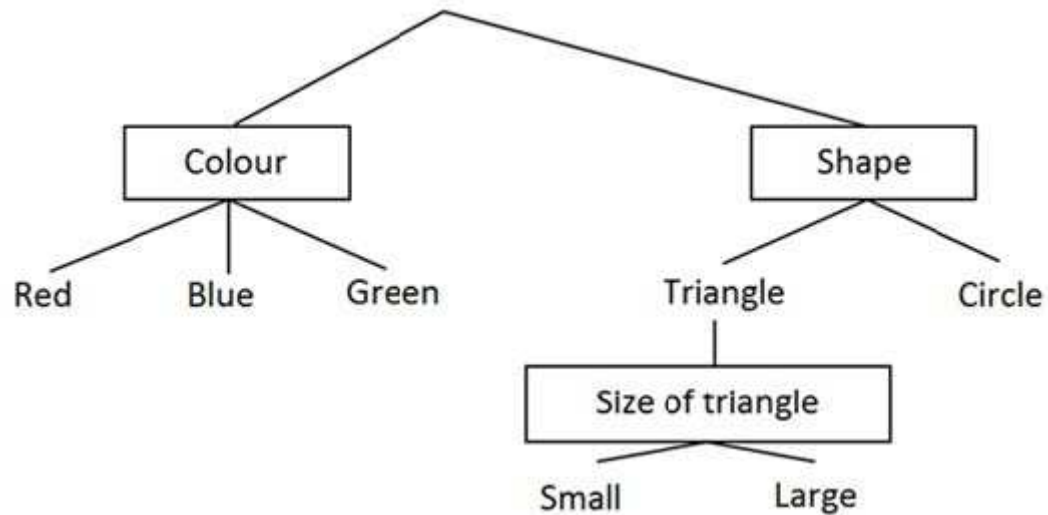
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

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 25**

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 26**

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 27**

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 28**

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 29**

A diamond retailer is introducing a new stock taking system. Each diamond is assigned a character that represents the colour. The valid domain for the character ranges from D to Z. The colour is then graded using the following scale:



<i>Colour</i>	D-F	G-J	K-M	N-R	S-Z
<i>Grade</i>	Colourless	Near Colourless	Faint yellow	Very light yellow	Light yellow

Which of the following test sets will provide the best equivalence partitioning coverage?

- A. D, F, G, H, K, M, N, P, T, Z
- B. D, G, K, N, S
- C. A, E, H, L, P, T, §
- D. E, H, L, M, U, €

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 30

As a test analyst you are gathering data to support accurate metrics. Which of the following metrics would be MOST appropriate to use to monitor product quality?

- A. Defects found versus defects expected
- B. Tests run and tests passed
- C. Test resources spent versus budget
- D. Compliance to entry criteria
- E. Product risks outstanding and new risks introduced

**Correct Answer:** ABE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

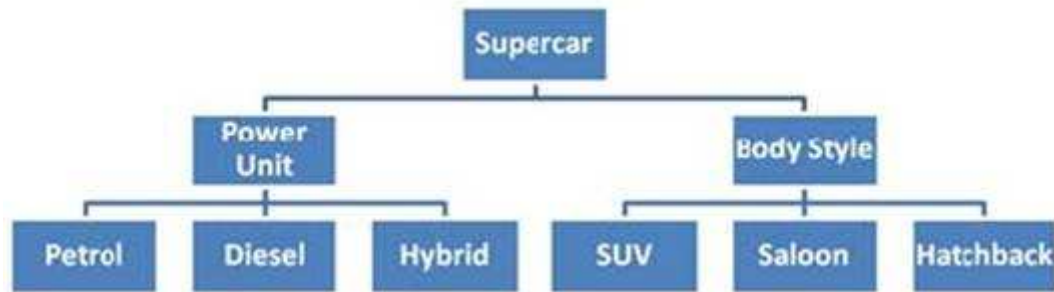
### QUESTION 31

### Supercar

Supercar is an online vehicle sales website specializing in single manufacturer's Sports Utility Vehicles (SUVs) and saloons. A vehicle has two key elements, power unit and body style. The manufacturer offers three choices of power unit: petrol, diesel and hybrid. There are 3 main body styles: Saloon, Hatchback and SUV.

SUVs only come as petrol and diesel options. Hybrid is available for Hatchback only. The site will allow an order to be processed if the chosen vehicle configurations are in stock, otherwise a message will be displayed asking the user to try again later.

Based on the specification the following classification tree has been developed:



Based on the “Supercar” classification tree the following positive test cases have been created:

Test case	Power Unit	Body Style
1	Petrol	SUV
2	Diesel	Saloon
3	Petrol	Hatchback

Which test case is needed to complete the set?

- A. Power Unit: Hybrid, Body Style: Saloon
- B. Power Unit: Diesel, Body Style: Hatchback

- C. Power Unit: Petrol, Body Style: Saloon
- D. Power Unit: Hybrid, Body Style: Hatchback

**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**

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:**



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