

## ATA<sup>Q&As</sup>

Advanced Test Analyst

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**QUESTION 1**

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? [K3] 3 credits

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

A.

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

B.

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

C.

	<b>1</b>	<b>2</b>	<b>3</b>
<b>1</b>	1	1	1
<b>2</b>	1	2	2
<b>3</b>	1	3	3
<b>4</b>	1	4	3
<b>5</b>	2	1	2
<b>6</b>	2	2	3
<b>7</b>	2	3	2
<b>8</b>	2	4	1
<b>9</b>	3	1	3
<b>10</b>	3	2	1
<b>11</b>	3	3	1
<b>12</b>	3	4	2

D.

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

**QUESTION 2**

Which of the following BEST explains the use of cause-effect graphing? [K2] 1 credit

- A. Useful to gain a graphical overview of a program's logical structure and are typically used as the basis for creating decision tables.
- B. Used with the purpose that with a limited set of test cases a reasonable level of coverage can be achieved.
- C. Used to test the ability of the software to enter into and exit from defined states via valid and invalid transitions.
- D. Used as a clear method to verify testing of all pertinent combinations of conditions and to verify that all possible combinations are handled by the software under test.

Correct Answer: A

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**QUESTION 3**

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 During interviews with both development and end-users it has been established that the failure scenario's can occur during the basic scenario and during each of the deviations.

How many test cases will be needed to achieve full coverage both for valid and invalid situations? [K3] 2 credits

- B. 12
- C. 16
- D. 20

Correct Answer: C

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**QUESTION 4**

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?

[K4] 3 credits

- A. pairwise testing
- B. exploratory testing

- C. use case testing
- D. decision table testing

Correct Answer: A

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#### QUESTION 5

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? [K4] 3 credits

- 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

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#### QUESTION 6

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? [K3] 2 credits

- 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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#### QUESTION 7

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? [K3] 2 credits

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

Correct Answer: D

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#### QUESTION 8

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? [K2] 1 credit

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

D. Suitability testing

Correct Answer: C

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#### QUESTION 9

In an organization using keyword-driven automation, which of the following activities typically is the responsibility of the test analyst? [K2] 1 credit

- A. Write the code to automate the key processes
- B. Work with the users to define the key usability aspects of the software
- C. Identify the key business processes that must be tested
- D. Write manual tests for the key business processes that can then be automated

Correct Answer: C

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#### QUESTION 10

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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. Which TWO of the following items may more frequently need to be explained in greater detail for non-functional defect reports than for a functional defect report? [K2] 1 credit

- A. Expected results
- B. Steps to reproduce the defect
- C. Test data used to identify the fault
- D. Level of load on the system at the time of failure
- E. Actual results

Correct Answer: AD

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