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



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## ATTA

### Advanced Technical Test Analyst

#### Sections

1. Test Techniques various
2. Structure-based Techniques
3. Bonus Program
4. Test tools & Automation
5. Testing of Software Characteristics
6. Specification Based Test Techniques
7. Test Process & Incident Management

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## Exam A

### QUESTION 1

As part of a risk analysis, technical risks are analyzed. Which TWO factors influence technical risk?



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- A. Complexity of technology
- B. Frequency of use of the affected failure
- C. Interfacing and integration issues
- D. Damage to image
- E. Lack of reasonable workaround

**Correct Answer:** AC

**Section:** Test Techniques various

**Explanation**

**Explanation/Reference:**

### QUESTION 2

A component has been analyzed as being highly critical. Which of the following structure-based test design techniques provides the highest level of coverage?

- A. Statement testing
- B. Decision testing
- C. Condition determination testing
- D. Multiple condition testing

**Correct Answer:** C

**Section:** Test Techniques various

**Explanation**

**Explanation/Reference:**

### QUESTION 3

The result of a product risk analysis performed on components I, II and III of the airplane control system shows the following risk matrix:

Impact ↑	II	I
	III	
	Likelihood →	

The project wants to mitigate the risks by defining different types of coverage depending on the risk level of the components. Which of the following would be a meaningful solution for setting the coverage targets?

- A. I: Condition determination coverage, II: Decision Coverage, III: Statement coverage
- B. I: Condition determination coverage, II: Statement coverage, III: Decision coverage
- C. I: Decision coverage, II: Condition determination coverage, III: Statement Coverage
- D. I: Multiple condition coverage, II: Decision coverage, III: Condition determination coverage

**Correct Answer: A**

**Section: Test Techniques various**

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Consider the following fault attack: “Force all possible incoming errors from the software/OS interfaces to the application”. Which of the following is the kind of failure you are looking for when using this attack?

- A. Application crashes when unsupported characters are pasted into an input field using the windows clipboard

- B. Front page of the application has incorrect spelling of the company name
- C. Application fails to display financial numbers in the correct currency format in reports
- D. Application miscalculates total monthly balance due on credit cards

**Correct Answer: A**

**Section: Test Techniques various**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

How many test cases would be needed to achieve 100% decision coverage?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer: A**

**Section: Structure-based Techniques**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

How many test cases would be needed to achieve 100% statement coverage?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer: A**

**Section: Structure-based Techniques**

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

What is the number of nested levels for the code fragment?

- A. 0
- B. 1
- C. 2
- D. 3

**Correct Answer:** C

**Section:** Structure-based Techniques

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

The comment frequency of the code fragment is 13%. To which ISO 9126 quality attribute does a good level of comment frequency especially contribute?



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- A. Portability
- B. Maintainability
- C. Usability
- D. Efficiency

**Correct Answer:** A

**Section:** Structure-based Techniques

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Which specification-based technique could be used to enhance coverage for this code fragment?

- A. Boundary value analysis
- B. Exploratory testing
- C. State transition testing
- D. Use case testing

**Correct Answer:** A

**Section:** Structure-based Techniques

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

What is the value of statement coverage achieved by test case 1 from test set A?

- A. ? 75% (21/28)
- B. ? 78% (22/28)
- C. ? 85% (24/28)
- D. ? 90% (25/28)

**Correct Answer:** A

**Section:** Bonus Program

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

Which additional set of test cases is needed to achieve both 100% statement coverage and 100% decision coverage?

A.

Price	Quantity	Bonus	Market
4.0	1100	1	UK
1.0	3	4	NL

B.

Price	Quantity	Bonus	Market
1.2	2000	10	USA
3.0	1100	20	UK

C.

Price	Quantity	Bonus	Market
2.0	5000	3	NL
3.0	500	3	USA

D.

Price	Quantity	Bonus	Market
5.0	1100	1	USA
1.0	1	1	USA

**Correct Answer: C**

**Section: Bonus Program**

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

Which TWO additional structure-based test design techniques could be used to dynamically test the code?

- A. Condition testing
- B. Multiple condition testing
- C. Equivalence partitioning
- D. Cause/effect graphing
- E. Code reviews

**Correct Answer: AB**

**Section: Bonus Program**  
**Explanation**

**Explanation/Reference:**

**QUESTION 13**

How many test cases are needed to test code fragment lines 26 – 32 to achieve 100% condition determination coverage?

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

**Correct Answer: B**

**Section: Bonus Program**  
**Explanation**

**Explanation/Reference:**

**QUESTION 14**

The application of multiple condition testing is also being considered.

Which specification-based technique is largely based on the principle of multiple condition testing?

- A. Equivalence Partitioning
- B. State Transition Testing
- C. Decision Table Testing
- D. Use Cases

**Correct Answer: C**

**Section: Bonus Program**  
**Explanation**

**Explanation/Reference:**

**QUESTION 15**

How many test cases are needed to test code fragment lines 26 – 32 to achieve 100% multiple condition coverage?



- A. 2
- B. 3
- C. 4
- D. 8

**Correct Answer:** D

**Section:** Bonus Program

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

The Bonus Program is perceived by management to be critical. Defects in the program would almost immediately lead to financial loss. In the past an improvement program has been run to implement review based on IEEE 1028. Knowledge and skills on both formal and informal reviews are available. There is also an existing pool of review leaders. Which of the following review types would you choose to review the program?

- A. Informal review
- B. Inspection
- C. Walkthrough
- D. Management review

**Correct Answer:** B

**Section:** Bonus Program

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

You have tested the program and have found that with “bonus” a boundary value has not been implemented according to design. You have written an incident

report. Which of the following is the incident report of the highest quality?

- A. Description: Boundary value not correctly implemented  
Priority: High  
Repeatability: Yes  
Tester: WVU  
Test case: 35 (test specification "bonus program"), V1.2
- B. Description: Boundary value not correctly implemented for bonus  
Priority: Medium  
Tester: WVU  
Test case: 35 (test specification "bonus program")
- C. Description: Boundary value not correctly implemented for bonus (line 26: 10 according to design, now 5 implemented)  
Priority: High  
Repeatability: Yes  
Tester: WVU  
Test case: 35 (test specification "bonus program"), V1.2
- D. Description: Boundary value not correctly implemented for bonus  
Priority: High  
Repeatability: Yes  
Tester: WVU  
Test case: 35 (test specification "bonus program"), V1.2

**Correct Answer: C**

**Section: Bonus Program**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 18**

When performing code reviews, which of the following defect types will be most difficult to find?

- A. Dead code
- B. Variable used that is not defined
- C. Memory issues
- D. Conformance to design

**Correct Answer: C**

**Section: Bonus Program**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

During code reviews, it is the author's responsibility...

- A. to address all major and minor defects as stated in the defect log
- B. to fix all major and minor defects as stated in the defect log
- C. to take action on only improvement suggestions from the defect log
- D. to correct source documents that have major defects

**Correct Answer: A**

**Section: Bonus Program**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Select TWO solutions how the team could achieve significant benefits in the use of this tool within the next 6 months?

- A. Introduce data-driven or keyword driven scripting techniques
- B. Change the development process
- C. Select and implement a test management tool to complement the test suite
- D. Identify critical parts of the system and concentrate on automating some of those tests for that particular area
- E. Get business testers involved in the automation process

**Correct Answer: AD**

**Section: Test tools & Automation**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

A developer has spent three days looking at a system that crashes now and then. The problem was caused by two coding faults:

- i. A variable was being used but had not been defined;

ii. There was a 'goto' statement to an undefined label

- A. Static analysis tool
- B. Code coverage tool
- C. Dynamic analysis tool
- D. Test execution tool

**Correct Answer:** A

**Section:** Test tools & Automation

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

A new web site has been launched for a conference organisation. There are a number of links to other related websites for information purposes. Customers like the new site but complaints are being made that some (not all) of the links to other sites do not work.



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- A. Performance tool
- B. Hyperlink tool
- C. Usability testing tool
- D. Static analysis tool

**Correct Answer:** B

**Section:** Test tools & Automation

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

It has been decided to improve the efficiency and effectiveness of unit testing by acquiring a number of test tools. Which TWO of the following tools would you

select to support unit testing?

- A. Dynamic analysis
- B. Review tool
- C. Coverage measurement tool
- D. Monitoring
- E. Test management

**Correct Answer:** AC

**Section:** Test tools & Automation

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

You have been asked to select a number of tools to support the performance testing. Which TWO of the following tools would you recommend?

- A. Test management tool
- B. Load testing tool
- C. Static analysis tool
- D. Monitoring tool
- E. Test oracle tool

**Correct Answer:** BD

**Section:** Testing of Software Characteristics

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

At which test level would performance testing most likely be performed?

- A. Component Testing
- B. Integration Testing
- C. System Testing
- D. User Acceptance Testing

**Correct Answer:** C

**Section:** Testing of Software Characteristics

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

To address reliability a number of measures will be taken throughout the development and testing process. Select TWO appropriate measures that are typically taken as part of reliability engineering and/or testing of an application.

- A. Define Operational Profiles
- B. State Transition Testing
- C. Usability testing
- D. Perform design FMEAs
- E. Exploratory test

**Correct Answer:** AD

**Section:** Testing of Software Characteristics

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

It has been decided by management to ask an external consultant to perform a reliability assessment. The external consultant will use a checklist to support the assessment. Select TWO checklist items that are most likely to be part of a reliability checklist.

- A. Are traceability matrices provided to the requirements?
- B. Is all code supported by a reviewed design document?
- C. Is the comment frequency at the correct level?
- D. Is a dual set of hardware available?
- E. Are features available for a periodic check of the database consistency?

**Correct Answer:** DE

**Section:** Testing of Software Characteristics

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

It has been suggested to organise a performance test to find out more regarding the third risk. Which of the following would you use to quantify the situation and as a basis for defining a performance exit criteria?

- A. Defect analysis time
- B. Change parameter success ratio
- C. Number of errors made by the user
- D. Time to perform the function

**Correct Answer: D**

**Section: Testing of Software Characteristics**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

How many test cases are required to test a specification that has three conditions using a decision table testing which is not collapsed?

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

**Correct Answer: D**

**Section: Specification Based Test Techniques**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

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: Specification Based Test Techniques**

**Explanation**

**Explanation/Reference:**

### QUESTION 31

scenario:

“Tax system”

Due to new legislation the tax system needs to be updated. For a person that has a salary less than € 20.000, the tax needs to be re-calculated. If the person also has more than two children an additional 10% reduction is applicable.

For equivalence partitioning based on this specification, how many input classes can be determined?

	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							

- A. 4
- B. 5
- C. 6
- D. 8

**Correct Answer:** A

**Section:** Specification Based Test Techniques

**Explanation**

**Explanation/Reference:**

### QUESTION 32

Scenario:

“Tax system”

Due to new legislation the tax system needs to be updated. For a person that has a salary less than € 20.000, the tax needs to be re-calculated. If the person also has more than two children an additional 10% reduction is applicable.

For equivalence partitioning based on this specification, how many output classes can be determined?

	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							



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

**Correct Answer:** B

**Section:** Specification Based Test Techniques

**Explanation**

**Explanation/Reference:**

### QUESTION 33

You are testing a set of signal changes at a railway station. The system is newly build using a traditional V-model approach. A full set of documentation is available that can be used as a test basis. Furthermore the system is identified as being safety critical. Which technique would you most likely use?

- A. Equivalence Partitioning

- B. Exploratory Testing
- C. State transition Testing
- D. Boundary Value Analysis

**Correct Answer:** C

**Section:** Specification Based Test Techniques

**Explanation**

**Explanation/Reference:**

#### **QUESTION 34**

Which TWO of the following artefacts can be useful as a test oracle the first time a test case is run?

- A. Incident report
- B. Requirements Specification
- C. Test summary report
- D. Legacy system
- E. Test plan

**Correct Answer:** BD

**Section:** Test Process & Incident Management

**Explanation**

**Explanation/Reference:**

#### **QUESTION 35**

Which of the following is an example of testing as part of the software design phase?

- A. A design review meeting
- B. An architect translating requirements into design
- C. Performing unit tests against design
- D. A test log showing code coverage achieved

**Correct Answer:** A

**Section:** Test Process & Incident Management

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

As a technical test analyst, which documents would you typically create?

- A. Test plan, test design, test cases and test log
- B. Test plan, test log, test design and test summary report
- C. Test script, test log, incident report and test design
- D. Incident report, test item transmittal report, test cases and test procedure

**Correct Answer: C**

**Section: Test Process & Incident Management**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

As a technical test analyst, you have found out during test case design that the design document is incomplete. Which is an example of a good way to communicate that problem in an email?

- A. E-mail: "Until I have received an updated version of the design document, I will not do any work on the test design."
- B. E-mail: "When will it be possible to receive the missing information? Test design is impeded by a lack of clarity here."
- C. E-mail: "Here we go again. The developer gave us incomplete and ambiguous design specifications. Typical."
- D. Do not communicate the problem, just log the delaying effect of the information problem and be ready to explain the delays to the test manager later.

**Correct Answer: B**

**Section: Test Process & Incident Management**

**Explanation**

**Explanation/Reference:**



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