

# ISTQB

CT-MBT

*ISTQB Certified Tester - Model-Based Tester (CT-MBT)*

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## Question: 1

An MBT approach is used for a hospital management software project at the system testing level. A test management tool and a test automation framework are used in the project. The requirements are stored in a spreadsheet.

Which one of the following statements regarding MBT tool integration describes good practice in the given project context?

Response:

- A. The MBT tool exports the generated test cases to the test management tool.
- B. To generate automated test scripts for the test automation framework, both tools should be purchased from the same vendor.
- C. Requirements are specified in the MBT tool and synchronized with the test management tool.
- D. The test automation framework automatically mirrors the test results back into the model.

**Answer: A**

## Question: 2

Does it make sense to have test equipment information in the MBT model?

Response:

- A. Yes. It helps the test manager to create a test suite with all tests requiring specific equipment.
- B. Yes. Without this information, testers will never be able to specify the tests correctly.
- C. No. It blows up the MBT model without providing helpful information.
- D. No. The test case generator will not understand the information and, thus, will not generate any test cases from the MBT model.

**Answer: A**

## Question: 3

Which one of the following statements is a typical combination of test selection criteria for an MBT model?

Response:

- A. Path coverage on structural models.
- B. Transition coverage on business process models
- C. Gateway coverage on textual models.

D. Transition pair coverage on state diagrams.

**Answer: D**

### Question: 4

A test team is using MBT to generate manual test scripts at system testing level. Which one of the following statements regarding MBT test adaptation for test execution is most true?

Response:

- A. In the case of manual test execution, testers need to read the MBT model to proceed to manual test execution.
- B. If abstract test cases are generated from the MBT model, a test automation engineer has to develop the test adaptation layer prior to any test execution.
- C. In the case of automated test execution, the test automation engineer adds test adaptation layer information to the MBT model to enable automated generation of concrete test cases.
- D. In general, specifying a test adaptation layer helps separating platform- and implementationspecific aspects from business workflows and rules to be tested.

**Answer: D**

### Question: 5

How does MBT foster early requirements validation?

Response:

- A. The MBT model visualizes complex dependencies and, thus, facilitates discussions between stakeholders having different level of technical knowledge.
- B. MBT requires a model-based requirements specification and, thus, forces the requirements engineers to be more precise.
- C. The MBT model has to be released together with the requirements specification, which leads to an early start of testing activities.
- D. MBT implies the generation of automated test scripts and, thus, ensures a higher coverage of regression testing.

**Answer: A**

### Question: 6

Why do we need new approaches to testing?

Response:

- A. Classic test design techniques such as boundary value analysis are incompatible with agile approaches.
- B. New technologies always require new tools and, thus, new approaches to testing.
- C. Testing projects have to cope with increasing industrial demands regarding time-to-market and cost reduction.
- D. By definition, new approaches are better and there is no reason not to use them.

**Answer: C**

### Question: 7

An MBT approach is used in a project. Which statement below regarding MBT activities is most correct?  
Response:

- A. MBT modeling activities should start as soon as possible, but not before having finished the detailed system design.
- B. MBT models reflect the system requirements, but do not consider the project test objectives.
- C. MBT activities in a test process should follow a strictly sequential order.
- D. Test selection criteria are used to drive test generation from the MBT model.

**Answer: D**

### Question: 8

Which one of the following statements is the best definition of model-based testing?  
Response:

- A. A testing technique using models to generate automated scripts.
- B. A test design technique that uses state transition diagrams to design test cases.
- C. Acceptance testing using business process models.
- D. Testing based on or involving models.

**Answer: D**

### Question: 9

Suppose the following test objectives are specified in a project:

- TO-1) validate the business workflows.
- TO-2) verify whether all system interfaces exist as specified.
- TO-3) validate that the system corresponds to the needs of different user profiles.
- TO-4) verify the correct implementation of input data ranges.

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Which one of the following combinations between test objectives and MBT model subject and focus is correct?

Response:

- A. TO-1 requires a structural system model.
- B. TO-2 requires a behavioral test model.
- C. TO-3 requires a behavioral environment model.
- D. TO-4 requires a structural environment model.

<b>Answer: C</b>
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### Question: 10

An MBT approach is deployed in a project. Which one of the following statements describes good practice?

Response:

- A. Deploying MBT with manual test execution requires additional risk management.
- B. Configuration management does not have to cover the MBT models, if the generated test cases are controlled.
- C. For projects applying continuous integration, MBT should be used for higher test levels only (system testing, user acceptance testing).
- D. Establishing traceability between requirements and MBT model elements is part of an MBT approach

<b>Answer: D</b>
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