

TMMi Professional Sample Questions

Release 2013-1.0

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Part 1 “Context of Test Improvement”

Learning Objective 1.3 “Summarize typical costs and benefits of the TMMi”

1. What is an example of an indirect benefit for a test improvement program?

Number of correct answers: *1*

- A) Improvement in Defect Detection Percentage
- B) Decrease in test execution lead-time
- C) Increased personnel motivation
- D) More reliable test estimates

Part 2 “Introduction to the TMMi model”

Learning Objectives 2.6 “Understand the evolution of the testing process as described by Gelperin and Hetzel”

2. The evolutionary testing model of Gelperin and Hetzel has served as a foundation for historical level differentiation in the TMMi. The evolutionary testing model describes a number of test phases.

Which of the following phases of the evolutionary testing model is associated with maturity level 1 “Initial” of the TMMi?

Number of correct answers: *1*

- A) Debugging-oriented phase
- B) Destruction-oriented phase
- C) Evaluation-oriented phase
- D) Demonstration-oriented phase

Part 3 “TMMi Maturity Levels”

Learning Objective 3.2 “Explain the TMMi maturity levels“.

3. Study the following description: “Testing is multi-leveled: there are component, integration, system and acceptance test levels. For each identified test level there are specific testing objectives defined in the organization-wide or program-wide test strategy. The processes of testing and debugging are differentiated.”

To which TMMi maturity level does this description apply?

Number of correct answers: *1*

- A) Level 2
- B) Level 3
- C) Level 4
- D) Level 5

Part 4 “Structure of the TMMi”

Learning Objective 4.8 “Explain the support of CMMI process areas for specific TMMi generic practices“

4. The implementation of TMMi generic practices can be supported by CMMI process areas.

Which of the following CMMI process areas can specifically support the implementation of “GP 2.9 Objectively evaluate adherence”?

Number of correct answers: *1*

- A) Organizational Process Definition
- B) Organizational Process Focus
- C) Project Planning
- D) Process and Product Quality Assurance

Part 5 “TMMi Model”

Learning Objective 5.1 “Summarize the TMMi level 2 process areas (Test Policy and Strategy, Test Planning, Test Monitoring and Control, Test Design and Execution and Test Environment) and specific goals”.

5. Which of the following specific goals would you be targeting during the implementation of the Test Policy and Strategy process area?

Number of correct answers: *1*

- A) Perform a Product Risk Assessment
- B) Establish Test Performance Indicators
- C) Establish a Test Approach
- D) Establish a Test Organization

Learning objective 5.3 “Summarize the TMMi level 3 process areas (Test Organization, Test Training, Test Lifecycle and Integration, Non-Functional Testing and Peer Reviews) and specific goals”.

6. A test process assessment has been performed at an embedded software organization. All process areas at TMMi level 2 and level 3 were in scope of the assessment. Many practices as required by the TMMi model are already in place, but the organization is missing a coherent test planning process addressing multiple test levels. A master test plan is not established which is important especially for larger project.

Which of the following process areas would need specific attention addressing the above mentioned shortcoming?

Number of correct answers: *1*

- A) Test Policy and Strategy
- B) Test Planning
- C) Test Organization
- D) Test Life Cycle and Integration

Learning objective 5.6 “Recognize the specific practices of the TMMi level 4 (Test Measurement, Software Quality Evaluation, Advanced Reviews) process areas.”

7. A test organization is at TMMi level 3, and is trying to implement the TMMi level 4 process areas. One of the improvement goals for the current year is to develop a quantitative understanding of product quality as part of the process area Product Quality Evaluation.

Which of the following specific practices needs to be addressed as part of SG 1 “Project Goals for Product Quality and their Priorities are Established” of the Product Quality Evaluation process area?

Number of correct answers: *1*

- A) Establish test process measures
- B) Identify non-functional product risks
- C) Identify product quality needs
- D) Measure product quality quantitatively throughout the lifecycle

Part 6 “TMMi Assessments”

Learning Objective 6.2 “Compare informal assessments to formal assessment”.

8. Consider the following characteristics of an assessment:

- the assessment is performed by an experienced TMMi assessor.**
- only interviews are used for collecting evidence.**

To which type of assessment do these characteristics relate?

Number of correct answers: *1*

- A) Informal assessments
- B) Formal assessments
- C) Both formal and informal assessments
- D) Neither formal nor informal assessments based on TAMAR

Part 7 “Implementing TMMi”

Learning Objective 7.5 “Summarize the activities of the acting phase of the improvement framework”.

9. Which of the following activities is an activity that will typically be performed as part of the Acting phase of a test improvement cycle?

Number of correct answers: *1*

- A) Charter Infrastructure
- B) Develop Recommendation
- C) Plan Actions
- D) Pilot Solution

Learning Objective 7.7 “Recognize the critical success factor for test process improvement”.

10. Which of the following factors is a critical success factor that is typically relevant while establishing improvements?

Number of correct answers: *1*

- A) Work on both long term and short term goals
- B) Management commitment
- C) The maturity of the development organization
- D) Organize test improvement as a project

Answers

- Question 1 C
- Question 2 A
- Question 3 A
- Question 4 D
- Question 5 B
- Question 6 D
- Question 7 C
- Question 8 A
- Question 9 D
- Question 10 A