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Exam Code: TMMi-P_Syll2.1

Exam Name: TMMi Test Maturity Model Integration Professional



Exam A

QUESTION 1

Which of the following statements best describes the difference between a Specific Goal and a Generic Goal in the TMMi model?

- A. A Specific Goal is applicable to multiple process areas, whereas a Generic Goal is applicable to one process area only.
- B. A Generic Goal is applicable to multiple process areas, whereas a Specific Goal is applicable to one process area only.
- C. A Specific Goal is the institutionalization of a Generic Goal.
- D. Generic Goals are re-used from the CMMI and the Specific Goals are related to their implementation specifically for testing.

Correct Answer: B

Section:

Explanation:

In the TMMi framework, a Specific Goal is unique to a particular process area and represents the essential outcomes that must be achieved for that process area. In contrast, a Generic Goal applies across multiple process areas and ensures that the processes are institutionalised, managed, and aligned with broader organisational objectives. Generic Goals help maintain consistency and effectiveness of processes across the organisation, while Specific Goals focus on the particular needs of an individual process area.

Reference: 'Generic goals are called 'generic' because the same goal statement appears in all process areas. Specific goals describe unique characteristics of a process area'.

QUESTION 2

Which type of TMMi model component is described hereafter?

"The components guide those who implement improvements or perform assessments. Either the practices as described or acceptable alternatives to the practices must be present in the processes of the organization before goals can be considered satisfied."

- A. Required component
- B. Expected components
- C. Informative components
- D. Alternative component

Correct Answer: B

Section:

Explanation:

Expected components in the TMMi model guide organisations on how to implement improvements or conduct assessments. These components, such as Specific Practices and Generic Practices, are necessary for satisfying goals. Expected components must be implemented, either as described or through acceptable alternatives, for an organisation to achieve compliance with the model and reach maturity in test processes.

Reference: 'Expected components describe practices that are critical to achieving goals. These practices must either be implemented as described or replaced with acceptable alternatives'.

QUESTION 3

TMMi distinguishes between required, expected and informative components.

Which of the following is an example of an informative TMMi model component?

- A. Specific Practices
- B. Sub-practices
- C. Generic Practices
- D. Generic Goals

Correct Answer: B

Section:

Explanation:

Sub-practices are informative components within the TMMi model. Informative components provide additional details or guidance to help organisations understand how to approach the required and expected components. Sub-practices are not mandatory, but they offer ideas or methods that can assist with the implementation of specific practices. Other examples of informative components include example work products, notes, and references.

Reference: 'Sub-practices are a detailed description that provides guidance for interpreting and implementing a specific practice. Sub-practices are informative components'.

QUESTION 4

Which of the following statements BEST describes a relationship between the TMMi model and the CMMI process areas Verification and Validation?

- A. CMMI process areas Verification and Validation are supporting process areas for the testing processes within the TMMi.
- B. The CMMI process areas Verification and Validation are process areas that should be addressed in parallel with the testing processes within the TMMi.
- C. The TMMi process areas provide support and a more detailed description of what is required to establish a defined Verification and defined Validation process.
- D. Achieving TMMi level 2 also ensures full compliance to the requirements of CMMI process areas Verification and Validation.

Correct Answer: C

Section:

Explanation:

The TMMi process areas complement the CMMI process areas for Verification and Validation by providing more detailed guidance specific to testing. While CMMI defines these areas at a high level, TMMi elaborates on how to establish and maintain a defined testing process that includes both verification and validation activities. The relationship between the two models is complementary rather than hierarchical, meaning that improving testing processes using TMMi can lead to fulfilling CMMI requirements for Verification and Validation.

Reference: 'The TMMi process areas provide support and a more detailed specification, especially of what is required to establish a defined verification and validation process'.

QUESTION 5

An organization is facing too many defects occurring during production. As a consequence, an important test improvement goal for the next improvement cycle is to improve the quality (effectiveness) of the test cases. Which of the following specific practices needs to be addressed, in the context of the improvement goal, as part of SG 1 "Perform Test Analysis and Design using Test Design Techniques" of the Test Design and Execution process area?

- A. Develop and Prioritize Test Procedures
- B. Specify Intake Test Procedure
- C. Identify and Prioritize Test Charters
- D. Identify and Prioritize Test Conditions

Correct Answer: D

Section:

Explanation:

To improve the quality of test cases and reduce defects in production, addressing the practice of 'Identify and Prioritize Test Conditions' under Specific Goal 1 (SG 1) of the Test Design and Execution process area is essential. This specific practice involves identifying conditions based on an analysis of the test items and prioritising them based on risk and other factors. By improving the identification and prioritisation of test conditions, organisations can ensure that they focus on the most critical aspects of the system, thereby increasing the effectiveness of their testing efforts and reducing defects in production.

Reference: 'SP 1.1 Identify and prioritize test conditions... Test conditions are identified and prioritized using test design techniques based on an analysis of the test items as specified in the test basis'.

QUESTION 6

A test process assessment against TMMi levels 2 and 3 has been performed on an international outsourcing software organization. Although many practices, as required by the TMMi model, are already in place, projects suffer from poor test estimations.

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

- A. Test Techniques
- B. Test Planning

- C. Test Design and Execution
- D. Test Training Program

Correct Answer: B

Section:

Explanation:

In the scenario described, where an organisation suffers from poor test estimations despite many practices being in place, the process area that requires attention is Test Planning. Specifically, SG 3 (Establish Test Estimates) focuses on developing well-founded estimates for testing effort and cost. This includes creating a top-level work breakdown structure, defining the test lifecycle, and determining estimates for the test effort and costs associated with different test activities. By addressing these practices, the organisation can improve its ability to generate accurate test estimations, leading to better project planning and resource allocation.

Reference: 'TMMi Level 2 Test Planning SG 3 Establish Test Estimates is key for addressing issues related to inaccurate test estimations'.

QUESTION 7

What is the relevance of CMMI for test organizations?

- A. CMMI is not relevant for a test organization, as CMMI only covers software development.
- B. Organizations that implement CMMI should also use TMMi for their test processes, because CMMI does not cover testing.
- C. CMMI adds value for organizations that implement TMMi because CMMI gives the organization the possibility to implement TMMi in a continuous way.
- D. At CMMI level 3 two specific process area are defined for testing, Validation and Verification.

Correct Answer: C

Section:

Explanation:

CMMI and TMMi complement each other in many ways. While CMMI focuses on improving broader software development processes, TMMi specifically addresses testing. Implementing CMMI provides value to test organizations by enabling a structured and continuous improvement approach that can incorporate TMMi as part of the overall process.

CMMI's continuous representation allows organizations to implement specific process areas related to testing (like verification and validation) and integrate TMMi practices for continuous improvement in their testing processes. Organizations following TMMi may also refer to CMMI practices for complementary process improvements in areas such as configuration management, planning, and performance measurement.

TMMi

Reference:

TMMi outlines how CMMI's process areas, such as Verification and Validation, provide critical value for testing organizations.

CMMI's structure supports continuous process improvement that aligns well with TMMi's structured approach to test process maturity.

QUESTION 8

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?

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

Correct Answer: A

Section:

Explanation:

The Debugging-oriented phase from Gelperin and Hetzel's evolutionary testing model is associated with Maturity Level 1 'Initial' of TMMi. At this maturity level, testing is not yet a distinct and well-defined process but is often interleaved with debugging. Organizations at this level have chaotic and ad-hoc testing activities, with no separation between testing and debugging.

Maturity Level 1 organizations lack formal processes, and testing is often reactive, performed alongside fixing bugs in the code. This is in line with the debugging-oriented phase, where testing and debugging are seen as part of the same activity.

TMMi

Reference:
The TMMi framework draws directly from the evolutionary model of Gelperin and Hetzel, associating the Debugging-oriented phase with Level 1, which describes a chaotic, unmanaged testing environment.

QUESTION 9

Which of the following statements is correct?

- A. TMMi provides an approach for test process improvement.
- B. TMMi provides a specific framework to be used as a reference model for testing in waterfall development methods.
- C. TMMi model addresses all test levels (including static testing) and aspects of structured testing for all kinds of development methods.
- D. TMMi is intended to be used solely for large organizations.

Correct Answer: C

Section:

Explanation:

The TMMi model is designed to be versatile and applicable across all test levels (including static and dynamic testing) and all types of development methodologies, such as waterfall, Agile, and DevOps. It provides comprehensive coverage of the testing process, ensuring that all critical aspects of testing---such as lifecycle processes, techniques, infrastructure, and organization---are addressed.

TMMi is not limited to specific development methods or organizational sizes; it is lifecycle-independent and can be used effectively with various development approaches, making it widely applicable in both small and large organizations.

TMMi

Reference:

TMMi covers all test levels, including both static testing (such as reviews) and dynamic testing at multiple stages, and is applicable across different software development lifecycles.

QUESTION 10

Which of the following process areas is a TMMi level 4 process area?

- A. Test Policy and Strategy
- B. Defect Prevention
- C. Test Lifecycle and Integration
- D. Advanced Reviews

Correct Answer: D

Section:

Explanation:

Advanced Reviews is a TMMi Level 4 process area. At TMMi Level 4 (Measured), organizations focus on making testing a quantifiable process, using metrics and measurements to evaluate and improve product quality and the testing process. Advanced Reviews involve more structured and formalized review processes that are integrated with the dynamic testing approach to measure and improve product quality earlier in the lifecycle.

The Test Policy and Strategy is part of Level 2.

Defect Prevention is part of Level 5.

Test Lifecycle and Integration is part of Level 3.

TMMi

Reference:

TMMi defines Advanced Reviews as a Level 4 process area aimed at improving product quality through more rigorous and measurable review processes.

QUESTION 11

What is the correct order for the following TMMi maturity levels (from low to high maturity)?

- A. Defined, Managed, Measured
- B. Managed, Defined, Measured
- C. Defined, Measured, Managed



D. Managed, Measured, Defined

Correct Answer: B

Section:

Explanation:

The correct order of TMMi maturity levels from low to high is:

Managed (Level 2): Testing becomes a managed and separate process from debugging, with formal strategies and plans.

Defined (Level 3): Testing is fully integrated into the development lifecycle, with standardized processes across projects.

Measured (Level 4): Testing processes are measured quantitatively, and product quality is evaluated with formal metrics.

This sequence reflects the increasing maturity and sophistication of an organization's testing processes as they progress through the levels.

TMMi

Reference:

The TMMi maturity levels follow the order of Managed (Level 2), Defined (Level 3), and Measured (Level 4).

QUESTION 12

Study the following description:

"Testing is multi-levelled: 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?

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

Correct Answer: A

Section:

Explanation:

The description provided---where testing is multi-level, with distinct test levels (component, integration, system, and acceptance), and where the processes of testing and debugging are differentiated---applies to TMMi Level 2 (Managed). At this maturity level, testing is separated from debugging, and there are formalized processes for different testing levels. A company-wide or program-wide test strategy is established, and specific testing objectives are defined for each test level.

TMMi

Reference:

The TMMi Level 2 framework defines structured testing with multiple levels, including component, integration, system, and acceptance testing, as well as the separation of testing and debugging.

QUESTION 13

Which of the following statements is TRUE?

- A. The maturity levels of TMMi describe detailed sub-practices for each specific goal.
- B. Each process area has exactly the same set of generic practices for generic goal 2.
- C. Specific goals can have different specific practices at different maturity levels.
- D. Sub-practices must be implemented together with the typical work products that are described for them in the TMMi model.

Correct Answer: C

Section:

Explanation:

In the TMMi framework, specific goals can indeed have different specific practices across maturity levels. The practices associated with a specific goal evolve as an organization matures, reflecting the need for more sophisticated approaches at higher levels of maturity. For example, test design practices at Level 2 are more basic compared to the more comprehensive practices at Level 3, which include integration with other lifecycle processes.



The other statements are incorrect. For instance, sub-practices are informative and not mandatory, and while generic goals have the same set of practices across process areas, specific goals vary by maturity level.

TMMi

Reference:

TMMi process areas include specific goals that may have different practices depending on the maturity level, as the process areas evolve with higher maturity.

QUESTION 14

Which of the following components describe what an organization must comply with to satisfy a process area?

- A. Informative components
- B. Expected components
- C. Required components
- D. Required components and expected components together

Correct Answer: C

Section:

Explanation:

Required components describe what an organization must comply with to satisfy a process area in the TMMi model. These components include specific goals and generic goals, and they form the basis for determining whether a process area has been successfully implemented during assessments. Expected components provide guidance on how to achieve the required goals, but they are not mandatory.

TMMi

Reference:

TMMi defines required components as those that organizations must achieve to satisfy a process area.

QUESTION 15

Which generic practice addresses tailoring a managed process from the organization's set of standard processes?

- A. Monitor and control the process
- B. Objectively evaluate adherence
- C. Establish an organizational policy
- D. Establish a defined process

Correct Answer: D

Section:

Explanation:

The generic practice 'Establish a defined process' addresses the need to tailor a managed process from the organization's set of standard processes. This practice is part of Generic Goal 3 (GG 3), which aims to ensure that processes are standardized and defined across the organization. By tailoring processes based on established guidelines, organizations can create specific implementations that fit their projects while maintaining consistency and control across the organization.

TMMi

Reference:

In TMMi, establishing a defined process involves tailoring standard processes to suit specific project needs, ensuring the institutionalization of best practices across projects.

QUESTION 16

Which of the following statements are TRUE?

- A. The TMMi process area Test Planning is supported by the CMMI process areas Project Planning, Requirements Management and Risk Management.
- B. Practices within Specific Goal 2 (Perform Peer Reviews) of the CMMI process area Validation provide support for implementation of the TMMi process area Peer Reviews.
- C. The CMMI process area Causal Analysis and Resolution Process Area provides support for implementation of TMMi process area Quality Control.
- D. Implementation of Non-Functional Testing process area of TMMi is supported by the CMMI process area Performance Management.

Correct Answer: A

Section:

Explanation:

The TMMi process area Test Planning is indeed supported by several CMMI process areas, including Project Planning, Requirements Management, and Risk Management. These CMMI areas provide foundational support for ensuring that the test planning process incorporates adequate project management, requirement traceability, and risk identification, all of which are critical for effective testing.

Specific Goal 2 of the CMMI Validation process area relates to validation activities, not peer reviews, and therefore does not support the TMMi Peer Reviews process area.

Causal Analysis and Resolution is linked to Defect Prevention in TMMi, not Quality Control.

Performance Management does not directly support the Non-Functional Testing process area in TMMi.

TMMi

Reference:

The TMMi Test Planning process area is supported by relevant CMMI process areas, such as Project Planning, which helps in aligning project goals with test planning activities.

QUESTION 17

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

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

Correct Answer: B

Section:

Explanation:

When implementing the Test Policy and Strategy process area in TMMi, one of the specific goals you would be targeting is to Establish Test Performance Indicators. These indicators are essential for measuring the effectiveness of testing processes and for assessing whether the organization's testing goals, as defined by the test policy, are being met.

Other goals, such as performing product risk assessments or establishing a test organization, are related to different process areas in the TMMi model.

TMMi

Reference:

The Test Policy and Strategy process area in TMMi includes the specific goal of establishing Test Performance Indicators to measure and track testing performance.

QUESTION 18

Which of the following is NOT a TMMi level 2 Process Area?

- A. Test Policy and Strategy
- B. Peer Reviews
- C. Test Monitoring and Control
- D. Test Environment

Correct Answer: B

Section:

Explanation:

Peer Reviews is NOT a TMMi Level 2 process area. Peer Reviews is a process area at TMMi Level 3. At Level 3, organizations formalize their testing processes, including peer reviews, which involve static testing activities like inspections and walkthroughs to identify defects early.

Test Policy and Strategy, Test Monitoring and Control, and Test Environment are all process areas at TMMi Level 2.

TMMi

Reference:

Peer Reviews are introduced at TMMi Level 3, whereas Test Policy and Strategy, Test Monitoring and Control, and Test Environment are process areas at Level 2.

QUESTION 19

Which process area are you be targeting when implementing the specific practice Define product risk categories and parameters?

- A. Test Policy and Strategy
- B. Test Planning
- C. Test Monitoring and Control
- D. Test Design and Execution

Correct Answer: A

Section:

Explanation:

The specific practice 'Define product risk categories and parameters' is part of the Test Policy and Strategy process area in TMMi. This practice involves identifying and categorizing the product risks to guide testing efforts and establish a clear understanding of potential product issues. Product risk categories help in determining the focus areas for testing, ensuring that testing is prioritized based on business and technical risks.

TMMi

Reference:

The practice of defining product risk categories is directly linked to the Test Policy and Strategy process area at TMMi Level 2, where risk-based testing approaches are established.

QUESTION 20

An informal TMMi assessment revealed a weakness in the area of traceability of test conditions and test cases to requirements.

Which process area are you be targeting when implementing the specific practice Maintain horizontal traceability with requirements?

- A. Test Planning
- B. Test Monitoring and Control
- C. Test Design and Execution
- D. Test Lifecycle and Integration

Correct Answer: C

Section:

Explanation:

The specific practice 'Maintain horizontal traceability with requirements' is part of the Test Design and Execution process area in TMMi. This process area ensures that there is traceability between test conditions, test cases, and requirements to ensure comprehensive test coverage. Horizontal traceability guarantees that test cases can be traced back to the specific requirements they are intended to verify, which is critical for managing and ensuring the quality of the testing process.

TMMi

Reference:

The Test Design and Execution process area includes practices that ensure test artifacts are traceable to requirements, supporting effective test coverage.

QUESTION 21

A test process assessment has been performed at an embedded software organization. All process areas at TMMi Levels 2 and 3 were in scope of the assessment. Many practices required by the TMMi model are already in place, but the organization is missing a master test plan spanning multiple test levels.

Which of the following process areas would most likely need specific attention to address the above-mentioned shortcoming?

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

Correct Answer: D

Section:

Explanation:



The absence of a master test plan spanning multiple test levels points to a weakness in the Test Lifecycle and Integration process area, which is a TMMi Level 3 process area. This process area focuses on ensuring that testing is integrated throughout the development lifecycle and includes the development of comprehensive test plans (including master test plans) that cover multiple test levels and align with the overall testing strategy.

TMMi

Reference:

The Test Lifecycle and Integration process area at TMMi Level 3 addresses the need for comprehensive and integrated test planning across all test levels.

QUESTION 22

Which TMMi level 3 process area includes the specific practice 'Establish the Organization's Test Process Database'?

- A. Test Organization
- B. Test Lifecycle and Integration
- C. Test Training Program
- D. Peer Review

Correct Answer: B

Section:

Explanation:

The specific practice 'Establish the Organization's Test Process Database' is found within the Test Lifecycle and Integration process area, which is part of TMMi Level 3. This process area aims to establish standardized test processes across the organization, including maintaining a test process database that holds process-related information and data for reuse and continuous improvement.

TMMi

Reference:

The Test Lifecycle and Integration process area is responsible for establishing and maintaining organizational test process assets, including the test process database.

QUESTION 23

The objective of a process area is to measure product quality early in the lifecycle, to enhance the test strategy and test approach by aligning static testing with dynamic testing, and to use the static testing results and data to optimize the test approach.

Which of the following process areas is concerned with this objective?

- A. Peer Reviews
- B. Product Quality Evaluation
- C. Advanced Reviews
- D. Test Measurement

Correct Answer: C

Section:

Explanation:

The Advanced Reviews process area, which is part of TMMi Level 4, is concerned with measuring product quality early in the lifecycle. It aims to enhance the test strategy and test approach by aligning static testing (reviews and inspections) with dynamic testing (execution of test cases). The results and data from static testing are used to optimize the dynamic testing approach, making the overall testing process more efficient and effective.

TMMi

Reference:

Advanced Reviews at TMMi Level 4 focuses on integrating static and dynamic testing approaches to optimize test strategy and product quality evaluation.

QUESTION 24

Which of the following are specific goals of maturity level 4 process area Advanced Reviews?

1. Coordinate the peer review approach with the dynamic test approach
2. Perform peer reviews
3. Adjust the test approach based on review results early in the life cycle
4. Establish test performance indicators
5. Testing is performed using statistical methods

- A. 1, 3, 5
- B. 1 and 3
- C. 2, 3, 4
- D. 2, 4, 5

Correct Answer: B

Section:

Explanation:

The specific goals of the Advanced Reviews process area include:

Coordinate the peer review approach with the dynamic test approach: Ensuring that static testing, such as peer reviews, is aligned with the dynamic testing approach to optimize testing efforts.

Adjust the test approach based on review results early in the life cycle: This goal aims to improve the test approach by using early feedback from reviews to make adjustments that can enhance testing later in the lifecycle.

The other options (2, 4, and 5) refer to different process areas or goals. For example, Perform peer reviews is part of the Peer Reviews process area at TMMi Level 3, not Advanced Reviews.

TMMi

Reference:

The Advanced Reviews process area at TMMi Level 4 focuses on aligning peer reviews with the dynamic test approach and adjusting the test approach based on review results.

QUESTION 25

A test organization is trying to implement an improvement goal 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 process area 4.2 (Product Quality Evaluation) specific goal 1 Project Goals for Product Quality and their Priorities are Established?

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



Correct Answer: C

Section:

Explanation:

As part of the Product Quality Evaluation process area (4.2), the specific goal 'Project Goals for Product Quality and their Priorities are Established' includes the practice of identifying product quality needs. This involves understanding and defining what quality means for the product, determining quality characteristics (such as reliability, usability, etc.), and establishing priorities for these characteristics based on project goals.

Other practices such as establishing test process measures and measuring product quality quantitatively come later in the lifecycle or are part of other specific goals.

TMMi

Reference:

In Product Quality Evaluation at TMMi Level 4, identifying product quality needs is critical for setting up measurable and prioritized goals for product quality.

QUESTION 26

Which of the following is FALSE about the specific goal 1 Align Test Measurement and Analysis Activities in process area 4.1 Test Measurement?

- A. Specific goal 1 covers the establishment of test measurement objectives
- B. Specific goal 1 addresses the specification of test measures
- C. Specific goal 1 covers the communication of test measurement results after analysis.
- D. Specific goal 1 addresses the specification of data collection, storage and analysis procedures

Correct Answer: C

Section:

Explanation:

The statement that Specific Goal 1 of the Test Measurement (4.1) process area covers the communication of test measurement results after analysis is FALSE. Specific Goal 1 focuses on aligning test measurement and analysis

activities, which involves setting measurement objectives, specifying the measures to be taken, and establishing procedures for data collection, storage, and analysis. However, the communication of results comes under Specific Goal 2, which deals with the analysis and reporting of test measurement results.

TMMi

Reference:

Test Measurement at TMMi Level 4 includes defining measures, data collection, and storage as part of aligning test measurement and analysis activities, while communicating results is part of a different goal.

QUESTION 27

Your organization performs code reviews and architectural reviews on a regular basis, in order to measure product quality early in the lifecycle.

This is an example of implementation of a specific practice from which TMMi level 4 process area?

- A. Product Quality Evaluation
- B. Test Measurement
- C. Advanced Reviews
- D. Quality Control

Correct Answer: C

Section:

Explanation:

Regular code reviews and architectural reviews are part of the Advanced Reviews process area, which belongs to TMMi Level 4. This process area emphasizes conducting static reviews (e.g., code and design reviews) early in the lifecycle to measure product quality and adjust the testing strategy based on the insights gained from these reviews.

TMMi

Reference:

The Advanced Reviews process area in TMMi Level 4 aims to ensure that static testing activities such as code and architectural reviews are used to measure product quality early in the lifecycle.

QUESTION 28

Which of the following is a TMMi level 5 process area?

- A. Advanced Reviews
- B. Test Measurement
- C. Organizational Innovation and Deployment
- D. Defect Prevention

Correct Answer: D

Section:

Explanation:

Defect Prevention is a TMMi Level 5 process area. This process area focuses on identifying the root causes of defects and implementing preventive measures to avoid their recurrence. At TMMi Level 5, the goal is to optimize processes and move from defect detection to defect prevention.

Advanced Reviews and Test Measurement are Level 4 process areas, while Organizational Innovation and Deployment is part of CMMI, not TMMi.

TMMi

Reference:

Defect Prevention is a key process area in TMMi Level 5, focusing on continuous process improvement and defect avoidance.

QUESTION 29

Which of the following are NOT specific goals of the TMMi level 5 process area Test Process Optimization?

1. Select test process improvements
2. Determine, plan and implement test process improvements
3. Evaluate New Testing Technologies to Determine their Impact on the Testing Process
4. Deploy test process improvements
5. Monitor product quality against plan and expectations

- A. 1 and 4
- B. 2 and 3
- C. 2 and 5
- D. 3 and 5

Correct Answer: C

Section:

Explanation:

The specific goals of the Test Process Optimization process area at TMMi Level 5 include:

Select test process improvements.

Evaluate new testing technologies to determine their impact on the testing process.

Deploy test process improvements.

However, 'Determine, plan and implement test process improvements' (2) and 'Monitor product quality against plan and expectations' (5) are not part of the Test Process Optimization goals. Instead, these activities belong to other process areas, such as Test Measurement or earlier maturity levels.

TMMi

Reference:

The goals for Test Process Optimization at TMMi Level 5 focus on selecting and deploying process improvements and evaluating new technologies.

QUESTION 30

Which of the following statements is FALSE about the level 5 process area Defect Prevention?

- A. Defect prevention practices propose solutions to eliminate common causes of defects.
- B. In order to prevent as many defects as possible, all defects should be analyzed.
- C. Defect Prevention is based on an analysis of a subset of all defects.
- D. Action proposals drive the improvement activities to prevent defects from reoccurring.



Correct Answer: B

Section:

Explanation:

The statement that all defects should be analyzed to prevent as many defects as possible is FALSE. In the Defect Prevention process area at TMMi Level 5, only a subset of defects---those that are recurring or considered to be of significant impact---are analyzed. Analyzing all defects would be inefficient and not always necessary. Instead, a targeted approach is used to identify common causes of defects and implement actions to prevent their recurrence.

TMMi

Reference:

The Defect Prevention process area is based on the analysis of a subset of defects to find and eliminate common causes.

QUESTION 31

Which of the following statements is FALSE?

- A. TMMi practices are an expected component, and they can be achieved by an "alternative" practice in an Agile context.
- B. TMMi refers to the fact that testing should be an integrated part of software development and not be treated as something that is totally separate. As such TMMi and Agile approaches can effectively work together.
- C. Agile approaches and TMMi can not only co-exist, but when successfully integrated will bring substantial benefits.
- D. When doing TMMi test process improvement in an Agile organization, an initial set of TMMi practices of TMMi must be imposed on an organization and applied to be applied to prove compliance.

Correct Answer: D

Section:

Explanation:

This statement is FALSE because TMMi is flexible and does not require the imposition of a predefined set of practices in Agile organizations. Instead, it encourages the adaptation of practices to fit the Agile context. TMMi allows for alternative practices that achieve the same goals as the expected practices, making it possible to integrate testing improvements in a way that aligns with Agile principles. The focus is on continuous improvement, not compliance with rigid practices.

TMMi

Reference:

TMMi emphasizes flexibility in adapting practices, particularly in Agile environments where imposed processes would contradict Agile values of adaptability and continuous improvement.

QUESTION 32

Which of the following statements is FALSE?

- A. The focus of improvements in an Agile context is often not on cross-project learning and institutionalization of improvements but on continuous improvements locally.
- B. Both in Agile and traditional environments, a centralized TMMi process improvement project should be set up to ensure proper implementation of improvement actions across the organization.
- C. In an Agile context, there may be a single combined "test document" covering the essential elements of a test policy, test strategy and even high-level test plan. Test process improvers should make "improvement" suggestions which call for more rigorous and thorough test documentation.
- D. In an Agile context, the range and number of alternative improvement ideas to be considered may be significantly higher than compared to non-Agile life cycle models.

Correct Answer: B

Section:

Explanation:

This statement is FALSE because in Agile environments, a centralized process improvement project may not align with the decentralized, self-organizing nature of Agile teams. Agile emphasizes local, team-driven improvements rather than a top-down, centralized approach. Continuous, local improvements within Agile teams are more suitable than attempting to manage improvements across the organization in a centralized manner, which is more characteristic of traditional environments.

TMMi

Reference:

In Agile contexts, improvement actions are typically implemented locally within teams rather than through a centralized project, aligning with Agile's principles of team autonomy.

QUESTION 33

Consider the following five statements about TMMi level 2 process areas in an Agile context. Which of these statements are true, and which ones are false?

- a. Test performance indicators in an Agile context at TMMi level 2 are always more related to team performance (for example, Velocity) than to the end-results of iterations (such as escaped defects).
- b. The product risk assessment process for Agile projects will normally take a more lightweight approach than with a sequential lifecycle model.
- c. The process area Test Monitoring and Control in an Agile context is not as important as in a traditional methodology, since sticking to a rigid plan is not one of the tenets of the Agile manifesto nor one of the principles of Agile.
- d. For TMMi in an Agile project, it is not necessary to have traceability between requirements, test conditions and tests, because test conditions are not part of an Agile methodology.
- e. Following the principles of Agile development, the specification of test environments is normally performed closer to test execution than in a sequential methodology, to provide the opportunity for late changes to be implemented.

- A. Statements (A. and (E. are true, statements (b), (C. and (D. are false
- B. Statement (B. is true, statements (a), (c), (D. and (E. are false
- C. Statements (B. and (C. are true, statements (a), (D. and (E. are false
- D. Statements (B. and (D. are true, statements (a), (C. and (E. are false

Correct Answer: A

Section:

Explanation:

Each statement about TMMi level 2 in an Agile context requires careful consideration within the framework:

(a): False. While Agile projects indeed use metrics like Velocity, TMMi requires tracking end-results such as escaped defects. Both team performance and outcomes, including defect-related metrics, are significant. Test performance indicators at TMMi level 2 in an Agile context should not solely focus on team performance metrics .

(b): True. The product risk assessment process in Agile projects typically adopts a more lightweight approach compared to traditional sequential lifecycle models. Agile teams often conduct risk assessments in a more collaborative and iterative manner .

(c): False. In Agile, monitoring and controlling processes are still critical to ensure goals and quality targets are met, even if the methodology allows for flexibility and adaptation .

(d): False. Traceability is still relevant in Agile, although it may be implemented differently. Agile methodologies such as Scrum do not eliminate the need for traceability between requirements, test conditions, and tests, which is an essential part of TMMi process areas .

(e): True. Agile allows for flexibility in defining the test environment closer to the execution phase, enabling changes that reflect evolving requirements and design decisions .

Thus, the correct combination is A: Statements (a) and (e) are true, while statements (b), (c), and (d) are false .

QUESTION 34

Which of the following statements is TRUE with respect to TMMi Levels 4 and 5 in an Agile context?

- A. Because Agile projects tend to focus on defect detection rather than defect prevention, Process area 5.1 Defect Prevention is less relevant when assessing an Agile organisation for TMMi level 5.
- B. Process area 4.3 Advanced Reviews is less relevant in an Agile context because quality tends to be a team effort and verification and validation tend to be discussed at team meetings, not in formal reviews.
- C. When considering the achievement of specific goals in process area 5.3 Test Process Optimization in an Agile context, the deployment of new testing technologies and test improvements do not have to be made across the whole organization, since Agile teams are autonomous and can decide which improvements suit their way of working best.
- D. Agile projects normally do not use operational profiles or usage models of a product on which to base statistically valid inferences to help create a representative sample of tests, thus the TMMi level 5 specific goal "Testing is performed using Statistical Methods" is considered not relevant in an Agile context.

Correct Answer: D

Section:

Explanation:

In an Agile context, some practices from TMMi levels 4 and 5 might be considered less relevant or adjusted to fit the Agile methodology. Specifically, at TMMi level 5, testing with statistical methods may indeed be less relevant. In Agile projects, operational profiles or usage models, which are essential to perform statistically valid testing, are often not utilised. Agile methodologies focus more on incremental development and continuous feedback loops, which do not typically rely on statistical sampling methods. Therefore, the statement that 'Agile projects normally do not use operational profiles or usage models of a product on which to base statistically valid inferences to help create a representative sample of tests, thus the TMMi level 5 specific goal 'Testing is performed using Statistical Methods' is considered not relevant in an Agile context' is true.

QUESTION 35

Consider the following characteristics of an assessment:

* the assessment is performed by an accredited TMMi assessor.

* only interviews are used as evidence.

To which type of assessment do these characteristics relate?

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

Correct Answer: A

Section:

Explanation:

Informal assessments, as described in the TMMi framework, are often quicker and cheaper as they do not require the extensive corroboration of evidence that formal assessments do. One key characteristic of informal assessments is that they may rely solely on interviews, without using other forms of corroboration such as documentation reviews or observations. These informal assessments provide an indicative view of the organization's maturity level but do not result in formal certification

QUESTION 36

Which of the following statements is TRUE?

- A. The involvement of one accredited TMMi lead assessor is a requirement for an informal assessment.
- B. The involvement of two accredited TMMi lead assessors is a requirement for a formal assessment.
- C. An informal assessment does not provide an assessment report.

D. Only a formal assessment can provide an assessment report with a valid maturity level rating.

Correct Answer: D

Section:

Explanation:

Formal assessments, in contrast to informal ones, are conducted with more rigor, and the results can lead to an official certification of maturity level. A formal assessment report includes a validated maturity level rating, making it distinct from informal assessments, which are used only for indicative purposes and do not result in an official rating. Thus, only formal assessments provide an assessment report with a valid maturity level rating.

QUESTION 37

Which of the following statements about informal assessments is FALSE?

- A. An informal assessment is a quick scan of an organization's maturity level against TMMi, but no formal rating is given.
- B. Advantages of informal assessments over formal assessments include: they are less time consuming; they are less costly; they provide a result just as accurate as with a formal assessment.
- C. During a test process improvement programme, informal assessments are typically performed several times.
- D. Only one type of evidence is required for an informal assessment.

Correct Answer: B

Section:

Explanation:

One of the key differences between informal and formal assessments is that informal assessments are not as rigorous. Informal assessments are more flexible, quicker, and less costly; however, they do not provide the same level of detail or accuracy as formal assessments. The statement that 'informal assessments provide a result just as accurate as with a formal assessment' is therefore false. Formal assessments involve multiple types of evidence and a more thorough evaluation, while informal assessments typically rely on fewer types of evidence (often only interviews).

QUESTION 38

Given the following assessment phases:

1. Interview phase
2. Planning phase
3. Preparation phase
4. Reporting phase

Which of following orderings matches the generic assessment process?

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

Correct Answer: B

Section:

Explanation:

The generic assessment process in TMMi follows a structured sequence. The correct order for the assessment phases is:

Planning phase: This involves setting the scope, goals, and strategy for the assessment. It includes assembling the assessment team, setting timelines, and defining objectives.

Preparation phase: In this phase, the necessary preparation for the assessment is done, including gathering initial information, documents, and materials. The assessment team familiarizes itself with the organization's processes.

Interview phase: This phase includes conducting interviews with key stakeholders and collecting direct evidence about the current processes.

Reporting phase: This is the final phase where the results of the assessment are compiled into a report, including findings, recommendations, and a roadmap for improvements.

Hence, the correct sequence is Planning, Preparation, Interview, Reporting which matches option B (2, 3, 1, 4).

QUESTION 39

Which of the following activities is one that will typically be performed as part of the Diagnosing phase of the IDEAL test improvement cycle?



- A. Develop Recommendations
- B. Develop Approach
- C. Develop Solution
- D. Plan Actions

Correct Answer: A

Section:

Explanation:

The Diagnosing phase in the IDEAL test improvement cycle is focused on understanding the current state of the organization's testing processes and identifying the areas for improvement. One of the key activities during this phase is Develop Recommendations, which involves analysing the current process against the goals and proposing areas where improvements can be made to achieve the desired state. Other activities in this phase include characterizing the current and desired states .

QUESTION 40

Which of the following statements about the Acting phase of the IDEAL improvement model is TRUE?

- A. This phase normally consumes the least effort in the IDEAL process, at about 15% of the total.
- B. "Develop approach" and "Create solution" are activities in this phase.
- C. "Plan actions" and "Implement solution" are activities in this phase.
- D. "Create solution" and "Implement Solution" are activities in this phase.

Correct Answer: D

Section:

Explanation:

In the Acting phase of the IDEAL improvement model, the focus is on implementing the changes that were identified and planned in the earlier phases. The two main activities in this phase are Create Solution and Implement Solution. This phase generally consumes the most effort, as creating and deploying solutions to improve the processes are resource-intensive activities. These activities align with option D, making it the correct answer .

QUESTION 41

Which of the statements about the Learning Phase of the IDEAL improvement framework is the TRUE?

- A. The Learning Phase includes the activities "Analyze and Validate", "Refine Solutions" and "Propose Future Actions".
- B. Since most work has been done in the previous phases, the Learning Phase is not important.
- C. The Learning Phase is the last, but nevertheless an important phase of the improvement cycle.
- D. At the end of the Learning phase, all the improvement activities must have been completed and all improvement goals must have been achieved.

Correct Answer: C

Section:

Explanation:

The Learning Phase in the IDEAL improvement framework is the final phase in the cycle and plays a crucial role in ensuring continuous improvement. Contrary to the belief that it is less important because most work has been done in previous phases, this phase is critical for learning from the experience gained during the improvement program. The Learning Phase ensures that the organisation refines its ability to implement change effectively. The key activities in this phase are:

Analyze and Validate: This involves reviewing what has been achieved, whether the goals have been met, and identifying lessons learned. It focuses on what worked well and what could be done better.

Propose Future Actions: Based on the analysis, recommendations are made to improve future programs. These proposals are often forwarded to management for consideration.

Thus, the Learning Phase is essential for organisational growth as it solidifies the learning from past improvements and applies it to future cycles, fostering continuous refinement of processes.

'The Learning phase completes the improvement cycle... The entire IDEAL experience is reviewed to determine what was accomplished, whether the intended goals were achieved, and how the organization can implement change more effectively and efficiently'.

QUESTION 42

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

- 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

Correct Answer: B

Section:

Explanation:

Management commitment is highlighted as one of the critical success factors in the context of implementing and sustaining test process improvements. Within the TMMi framework, senior management support is crucial for ensuring that necessary resources, funding, and priority are allocated to the improvement initiatives. This commitment must be sustained throughout the process to overcome potential resistance and ensure that the improvements are institutionalised. Without strong management commitment, the efforts may lose momentum, and the improvement goals may not be achieved.

This factor is critical across several levels of TMMi, as seen in processes related to institutionalising the test process (such as defining organisational policies, resource allocation, and performance evaluation).

'Senior management sponsorship establishing a specific technically competent test process group that represents relevant stakeholders to guide test process improvement efforts has proven to be an effective approach'.

QUESTION 43

Which of the following is a typical business reason for starting a test improvement program?

- A. Implement risk-based testing
- B. Achieve a higher level of product reliability
- C. Increase market share
- D. Provide a career path for test professionals

Correct Answer: B

Section:

Explanation:

A key business reason for initiating a test improvement programme is to improve product reliability, which is directly related to the quality of the final product delivered to customers. Enhancing reliability through systematic testing can lead to fewer defects, higher customer satisfaction, and reduced costs associated with fixing issues post-release. This is often a priority in organisations where product quality and reliability are critical success factors, such as in industries like healthcare, automotive, or aviation.

The TMMi framework recognises that a focus on improving product quality, including reliability, is one of the major drivers for test process improvements. Testing processes that evolve and improve reliability provide value by reducing the risk of defects and ensuring that the software meets the defined quality criteria.

'Improvement in product quality including reliability is often one of the primary drivers for initiating a test process improvement programme'.

QUESTION 44

Which test level can NOT be improved using the TMMi model?

- A. Static testing, e.g., reviews
- B. Component testing
- C. User acceptance testing
- D. All levels of testing can be within the scope of a TMMi based test process improvement programme.

Correct Answer: D

Section:

Explanation:

The TMMi framework is applicable to all levels of testing, including static testing (such as reviews) and dynamic testing, regardless of the phase of the software development lifecycle. TMMi encompasses structured testing activities across various test levels such as component testing, integration testing, system testing, and user acceptance testing, along with both static and dynamic techniques. Therefore, all levels of testing can be improved using the TMMi model.



Reference: The TMMi document clearly states, 'TMMi addresses all test levels (including static testing)'.

QUESTION 45

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

- A. Improvement in staff motivation
- B. Shortened lead-time of test execution phase
- C. Higher levels of defect detection
- D. Improved (more reliable) test estimations

Correct Answer: A

Section:

Explanation:

An indirect benefit of a test improvement programme is improved staff motivation. While direct benefits, such as shortened lead time or higher defect detection rates, are focused on measurable improvements, indirect benefits include enhanced morale and engagement of the staff involved. A well-structured test improvement programme can lead to better recognition of the testing function within the organisation, leading to increased satisfaction and motivation among testing professionals.

Reference: The TMMi Framework emphasises that successful test improvements often result in indirect benefits like 'improvement in staff motivation'.

QUESTION 46

Which of the following statements regarding testing related aspects of the CMMI is FALSE?

- A. CMMI has two dedicated testing process areas: Verification and Validation.
- B. Generic goals and practices are also applicable for test process improvement.
- C. Specific supporting process areas, e.g., Configuration Management, are also relevant to testing.
- D. Testing maturity within the CMMI is defined at various levels.

Correct Answer: D

Section:

Explanation:

This statement is false because the CMMI does not have defined levels specifically for testing maturity. The CMMI model is more general and focuses on overall process improvement across various disciplines, including but not limited to testing. CMMI includes practices like verification and validation but does not specifically address a structured path to testing maturity, unlike TMMi, which defines specific levels for testing process maturity. Therefore, statement D is incorrect.

Reference: The TMMi document clarifies that while CMMI includes testing-related process areas (such as verification and validation), it does not define testing maturity at various levels as TMMi does.

QUESTION 47

Improvement models can have a staged and/or continuous representation. The TMMi has been developed as a staged model.

Which of the following statements regarding a staged improvement model is TRUE?

- A. An organization can select process areas for improvement based on business objectives.
- B. A staged representation uses a predefined set of process areas to define an improvement path for an organization.
- C. A staged representation has no fixed set of levels to proceed through.
- D. Practical experiences have shown that a staged representation is more difficult to use than a continuous representation due to its flexibility.

Correct Answer: B

Section:

Explanation:

In a staged model like TMMi, an organisation follows a predefined improvement path that includes a set of process areas organised by maturity levels. Each level builds upon the previous one, and the organisation progresses in a step-by-step manner through these maturity levels to improve its processes. The staged model is well-structured and prescriptive, offering a clear improvement roadmap for the organisation.

Reference: The TMMi framework follows a staged architecture where 'the staged model uses predefined sets of process areas to define an improvement path'.

QUESTION 48

Which of the following statements is a correct description of the scope of the TMMi model?

- A. The TMMi model is specifically targeted towards higher test levels (e.g., system test and acceptance test).
- B. The TMMi model is specifically targeted at dynamic testing and does NOT address static testing.
- C. The TMMi model is intended to support testing activities and test process improvement in both the systems engineering and software engineering discipline.
- D. The TMMi model includes requirements for both formal and informal TMMi assessments.

Correct Answer: C

Section:

Explanation:

The TMMi model is designed to support test process improvement in both software engineering and systems engineering. This is critical because it addresses the needs of total system development, which may include hardware and software. The model covers various testing activities across different disciplines, allowing organisations to improve their test processes regardless of whether they focus solely on software or integrated systems.

Reference: 'The TMMi is intended to support testing activities and test process improvement in both the systems engineering and software engineering disciplines'.

QUESTION 49

Which of the following process areas is a TMMi level 3 process area?

- A. Test Design and Execution
- B. Quality Control
- C. Non-Functional Testing
- D. Advanced Reviews

Correct Answer: A

Section:

Explanation:

Test Design and Execution is a key process area at TMMi Level 2, not Level 3. However, other process areas at TMMi Level 3 include Non-functional Testing, Peer Reviews, and Test Lifecycle and Integration. Test Design and Execution plays a foundational role in laying down the practices for creating and executing test cases, especially at earlier maturity levels. By TMMi Level 3, processes become more sophisticated with a broader range of testing techniques and integration into the overall lifecycle.

Reference: 'TMMi level 3 includes process areas such as Non-functional Testing, Test Lifecycle and Integration, and Peer Reviews'.

QUESTION 50

To which TMMi level do the process areas Test Organization and Test Training Program belong?

- A. TMMi level 2 Managed
- B. TMMi level 3 Defined
- C. TMMi level 4 Measured
- D. TMMi level 5 Optimization

Correct Answer: B

Section:

Explanation:

Both Test Organization and Test Training Program are process areas associated with TMMi Level 3 (Defined). At this level, the organisation establishes a formal test organisation and ensures that there is a dedicated test training program. This helps to institutionalise testing as a profession and ensures the systematic development of skills needed for testing activities across the organisation.

Reference: 'Test Organization and Test Training Program are process areas within TMMi Level 3'.



QUESTION 51

Study the following description:

"Testing is a thoroughly defined, well-founded and measurable process. Testing is perceived as evaluation; it consists of all lifecycle activities concerned with checking products and related work products."

To which TMMi maturity level does this description apply?

- A. TMMi Level 2 Managed
- B. TMMi Level 3 Defined
- C. TMMi Level 4 Measured
- D. TMMi Level 5 Optimization

Correct Answer: C

Section:

Explanation:

The description provided, 'Testing is a thoroughly defined, well-founded, and measurable process. Testing is perceived as evaluation; it consists of all lifecycle activities concerned with checking products and related work products,' corresponds to TMMi Level 4, which is labelled 'Measured.' At this level, testing processes are quantitatively measured, and there is a strong focus on evaluating product and process quality using quantitative metrics. Testing is integrated throughout the lifecycle and becomes a predictable, measurable process that supports organisational goals.

Reference: 'TMMi Level 4 organisations have a test process that is defined, well-founded, and measurable. Testing is perceived as evaluation and encompasses all lifecycle activities related to checking products and work products'.

QUESTION 52

A test organization is at the initial TMMi level and is trying to implement the TMMi level 2 process areas. One of the improvement goals for the current year is to improve management and control of test environments.

Which of the following specific practices needs to be addressed as part of SG 3 "Manage and Control Test Environments" of the Test Environment process area?

- A. Perform test environment intake test
- B. Analyze the test environment requirements
- C. Create generic test data
- D. Coordinate the availability and usage of test environments



Correct Answer: D

Section:

Explanation:

To improve the management and control of test environments, one of the specific practices under SG 3 (Manage and Control Test Environments) of the Test Environment process area is to coordinate the availability and usage of test environments. This involves managing reservations, scheduling, and ensuring the efficient use of test environments across different projects. This practice is essential for ensuring that the test environments are available when needed, reducing delays, and improving the overall efficiency of the testing process.

Reference: 'TMMi Level 2 Test Environment SG 3 SP 3.2: Coordinating the availability and usage of test environments is critical for managing test environments effectively'.

QUESTION 53

In a TMMi assessment, one of the shortcomings stated was the lack of professional testers. "Test functions and accompanying test career paths to be defined" is an improvement action recommended by the assessors.

Which TMMi process area addresses specific goals and specific practices for defining test functions and establishing test career paths?

- A. Test Training Program
- B. Test Policy and Strategy
- C. Test Organization
- D. Test Planning

Correct Answer: C

Section:

Explanation:

The process area that addresses the definition of test functions and the establishment of test career paths is the Test Organization process area, found at TMMi Level 3. This process area focuses on creating a well-structured test organisation, defining various test functions, and establishing career paths for testers. Specific practices include defining roles for test specialists, assigning staff to those roles, and establishing career development frameworks to support the professional growth of testers within the organisation.

Reference: 'TMMi Level 3 Test Organization SG 2 specifically focuses on establishing test functions and test career paths'.

QUESTION 54

How do TMMi based organizations benefit from the Agile way of thinking?

- A. Within Agile test improvements will typically take place through an organization-wide Test Process Group that can take rapid action
- B. By using TMMi as a reminder of critical testing practices that are often not defined or 'forgotten' in Agile development methodologies
- C. The Agile way of thinking typically brings out the initiative to further detail the test processes as they are currently defined
- D. By only focusing on team-based related test process areas, and omitting anything that is related to improving testing at an organizational level.

Correct Answer: B

Section:

Explanation:

Agile organisations often focus on rapid iterations and minimal documentation, which can lead to the omission or underuse of structured testing practices. TMMi serves as a valuable guide for Agile teams by highlighting critical testing practices that might be overlooked, ensuring that essential quality processes such as risk analysis, peer reviews, and test planning are not neglected.

This reminder ensures that teams maintain a disciplined approach to testing while still benefiting from Agile flexibility.

QUESTION 55

Which of the following statements is NOT true regarding test documentation in an Agile context?

- A. In an Agile context test process improvers should make improvement suggestions which call for more rigorous and thorough test documentation
- B. In an Agile context there may be a single combined 'Mest document' covering the essential elements of a test policy, test strategy and even high-level test plan
- C. In an Agile context the lightweight test processes must be supported by mentoring and on-the-job assistance especially during the period of initial deployment
- D. In an Agile context during a TMMi assessment the focus to gather evidence will shift towards doing more interviews instead of studying artifacts

Correct Answer: A

Section:

Explanation:

In an Agile context, the emphasis is typically placed on lightweight, flexible documentation. Test documentation should be 'just enough' to support the test process, and excessive documentation may be seen as unnecessary overhead. Therefore, calling for more rigorous and thorough documentation is not in line with Agile principles. Instead, Agile favours working software and collaboration over comprehensive documentation, supported by mentoring and just-in-time guidance rather than formalised documentation.

QUESTION 56

Which of the following is an Agile technique that can be applied as a way to establish test estimates (SG3) in the context of the Test Planning process area?

- A. Risk poker
- B. Planning poker
- C. Iteration planning
- D. Exploratory testing

Correct Answer: B

Section:

Explanation:

Planning poker is an Agile technique commonly used to estimate effort, and it can be adapted for use in the Test Planning process area to help estimate test efforts (SG3: Establish Test Estimates). This collaborative technique brings stakeholders together to estimate the effort required for tasks by assigning numerical values in a consensus-driven manner. It is particularly effective in Agile environments where estimation is iterative and frequently

updated based on evolving project needs.

QUESTION 57

Test Organization is an often misunderstood process area. Many read this as the TMMi requires an independent test group that does independent testing. As much as this is a possibility, there are also other organizational models that comply with the TMMi requirements.

Which of the following is a typical format that a test organization may take in an Agile context?

- A. Test Centre of Excellence
- B. SCRUM team
- C. Test guild
- D. Test Process Group

Correct Answer: B

Section:

Explanation:

In an Agile context, the SCRUM team model is a typical format for a test organisation. Testing is integrated into the cross-functional SCRUM team, with testers working alongside developers and product owners throughout the sprint. This ensures that testing is a continuous activity, rather than a separate phase. The test organisation in Agile environments focuses on collaboration and team-based activities, rather than a separate or independent test group.

QUESTION 58

Which type(s) of evidence collection is required with a formal TMMi assessment?

- A. Staff interviews
- B. Document study
- C. Customer surveys
- D. Staff interviews and document study

Correct Answer: D

Section:

Explanation:

For a formal TMMi assessment, both staff interviews and document study are required to collect sufficient evidence. The assessment must adhere to the TMMi Assessment Method Accreditation Requirements (TAMAR), which state that formal assessments require the corroboration of interview data with documentary evidence (artifacts). These can include documents, templates, or screenshots, ensuring that the evaluation is robust, repeatable, and auditable.

QUESTION 59

Consider the following characteristics of an assessment:

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

To which type of assessment do these characteristics relate?

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

Correct Answer: A

Section:

Explanation:



The assessment described, where only interviews are used to collect evidence, aligns with an informal TMMi assessment. Informal assessments are more flexible and do not require documentary evidence to corroborate interview data. They provide an indicative view of the organisation's maturity but do not result in a formal maturity rating or certification.

