

# Quiz - 1

## Question 1

424 The "bottom-up" approach in agile architecting focuses on:

Question 1Answer

- a. Addressing specific implementation details.
- b. Creating detailed project plans.
- c. Conducting market analysis.
- d. Defining high-level architectural goals.

### Feedback

The correct answer is: Addressing specific implementation details.

## Question 2

Question 8: Which of the following is a guideline for the Agile architect?

Question 2Answer

- a. Be prepared to change the architecture as needed
- b. Avoid architecture on smaller projects
- c. Ignore quality attributes
- d. Do a large amount of architecture up front for all projects

### Feedback

The correct answer is: Be prepared to change the architecture as needed

## Question 3

0204 What is the primary role of a software architect in a project?

Question 3Answer

- a. Making coffee runs
- b. Defining the overall system structure
- c. Coding the entire system
- d. Designing the user interface

### Feedback

The correct answer is: Defining the overall system structure

## Question 4

### Question text

In the 4+1 model, which view is primarily used by system engineers?

Question 4Answer

- a.  
Development View
- b.  
Physical View
- c.  
Process View
- d.  
Logical View

Feedback

The correct answer is: Physical View

Question **5**

3023: Interoperability. A system with high interoperability is likely to:

Question 5Answer

- a.  
Require extensive customization for each integration.
- b.  
Have limited compatibility with different platforms.
- c.  
Easily exchange data and functionality with other systems.
- d.  
Be difficult to integrate with other systems.

Feedback

The correct answer is: Easily exchange data and functionality with other systems.

Question **6**

3008 Which quality attribute is most closely related to a system's ability to adapt to changing requirements?

Question 6Answer

- a.  
Testability
- b.  
Modifiability
- c.  
Interoperability
- d.  
Scalability

Feedback

The correct answer is: Modifiability

Question **7**

3035: The degree to which a system can be tested to verify its correctness is referred to as:

Question 7Answer

- a.  
Scalability
- b.

Usability

c.

Modifiability

d.

Testability

Feedback

The correct answer is: Testability

Question **8**

402 The Attribute-Driven Design (ADD) method is primarily used for:

Question 8Answer

a.

Designing the software architecture.

b.

Documenting software architecture.

c.

Capturing ASRs in a utility tree.

d.

Gathering ASRs from requirements documents.

Feedback

The correct answer is: Designing the software architecture.

Question **9**

0222 Which of the following is NOT a category of architectural structures?

Question 9Answer

a.

Database Structures

b.

Allocation Structures

c.

Component-and-Connector Structures

d.

Module Structures

Feedback

The correct answer is: Database Structures

Question **10**

422 The concept of "technical debt" in agile architecture refers to:

Question 10Answer

a.

Financial costs associated with software development.

b.

The accumulation of suboptimal design decisions.

c.

Delays in project delivery.

d.

Insufficient testing.

Feedback

The correct answer is: The accumulation of suboptimal design decisions.

Question **11**

Question 15: What is the relationship between agility and documentation in Agile projects?

Question 11Answer

- a.  
Documentation is unnecessary in Agile projects
- b.  
Documentation is always a waterfall concept
- c.  
Documentation can support agility
- d.  
Documentation is a hindrance to agility

Feedback

The correct answer is: Documentation can support agility

Question **12**

408 Which of the following is NOT a guideline for the Agile architect?

Question 12Answer

- a.  
Balance architecture and agility based on project characteristics.
- b.  
Be prepared to change the architecture as requirements evolve.
- c.  
Focus on major patterns for smaller projects.
- d.  
Avoid any up-front architecture work on larger projects.

Feedback

The correct answer is: Avoid any up-front architecture work on larger projects.

Question **13**

HS0114 The ability to handle increasing workloads without significant performance degradation is known as:

Question 13Answer

- a.  
Performance
- b.  
Scalability
- c.  
Reusability
- d.  
Modifiability

Feedback

The correct answer is: Scalability

Question **14**

HS0101 Which of the following is NOT a key reason for the importance of software architecture?

Question 14Answer

- a.  
Determines programming language choice
- b.  
Enables early prediction of system qualities
- c.  
Facilitates communication among stakeholders
- d.  
Influences system quality attributes

Feedback

The correct answer is: Determines programming language choice

Question **15**

0234 There is:

Question 15Answer

- a.  
An inherently good architecture
- b.  
Only one correct architecture for each system
- c.  
No such thing as an inherently good or bad architecture
- d.  
An inherently bad architecture

Feedback

The correct answer is: No such thing as an inherently good or bad architecture

Question **16**

3024: Testability. Which of the following is a key characteristic of a highly testable system?

Question 16Answer

- a.  
Overlapping responsibilities.
- b.  
Complex dependencies between components.
- c.  
Clear and isolated units of functionality.
- d.  
Tightly coupled modules.

Feedback

The correct answer is: Clear and isolated units of functionality.

Question **17**

Question 4: What is the relationship between architecture and agility in Agile projects?

Question 17Answer

- a.  
Architecture is a hindrance to agility
- b.  
Architecture is always a waterfall concept
- c.  
Architecture is unnecessary in Agile projects
- d.  
Architecture can support agility

Feedback

The correct answer is: Architecture can support agility

Question **18**

3005 Usability is primarily concerned with:

Question 18Answer

- a.  
The system's ability to handle large amounts of data.
- b.  
The system's security and privacy features.
- c.  
The system's internal architecture and design.
- d.  
The system's efficiency and effectiveness.

Feedback

The correct answer is: The system's efficiency and effectiveness.

Question **19**

The "inside-out" strategy for views starts with which structure?

Question 19Answer

- a.  
Development structure
- b.  
Logical structure
- c.  
Physical structure
- d.  
Process structure

Feedback

The correct answer is: Logical structure

Question **20**

Question text

Question 17: What is the purpose of the Agile Manifesto?

Question 20Answer

- a.  
To promote a specific Agile framework
- b.  
To avoid any architecture
- c.  
To provide a detailed methodology for Agile projects
- d.  
To define the principles of Agile software development

**Feedback**

The correct answer is: To define the principles of Agile software development

**Question 21**

HS0124 By focusing on component assembly, architecture-based development can:

Question 21Answer

- a.  
Increase development time
- b.  
Accelerate time to market
- c.  
Reduce code quality
- d.  
Hinder innovation

**Feedback**

The correct answer is: Accelerate time to market

**Question 22**

0212 Which context emphasizes the role of quality attributes in software architecture?

Question 22Answer

- a.  
Business
- b.  
Project life cycle
- c.  
Professional
- d.  
Technical

**Feedback**

The correct answer is: Technical

**Question 23**

HS0119 Architectural patterns help in:

Question 23Answer

- a.  
Promoting chaotic development
- b.  
Reducing design alternatives
- c.

Ignoring quality attributes

d.

Increasing design complexity

Feedback

The correct answer is: Reducing design alternatives

Question **24**

What is the relation called in the process structure?

Question 24Answer

a.

Generalization

b.

Uses

c.

Inheritance

d.

Attachment

Feedback

The correct answer is: Attachment

Question **25**

Which architectural structure supports reasoning about collections of similar behavior or capability?

Question 25Answer

a.

Uses

b.

Class, or generalization

c.

Decomposition

d.

Deployment

Feedback

The correct answer is: Class, or generalization