

## Question 1

Not yet answered

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The data in the \_\_\_\_\_ component of a PAC agent is passive.

- ☐ a. control
- ☒ b. abstraction
- ☐ c. All of the others
- ☐ d. presentation

[Clear my choice](#)

## Question 2

Not yet answered

Marked out of 1.00

PAC has following benefits

- ☐ a. Easy to plug-in new agent or replace an existing one.
- ☐ b. Support agent reusability and extensibility.
- ☐ c. Support of multi-tasking and multi-viewing.
- ☒ d. All of the others

[Clear my choice](#)

Question **3**

Not yet answered

Marked out of 1.00

Which of the following is NOT the benefit of the MVC architecture?

- ☐ a. Provides flexible GUI interfaces
- ☐ b. Supports loose data coupling
- ☐ c. None of the others
- ☒ d. Supports multiple independent agents
- ☐ e. Supports multiple views

[Clear my choice](#)Question **4**

Not yet answered

Marked out of 1.00

Which is not component in interaction-oriented software architecture?

- ☒ a. Data repository
- ☐ b. View presentation module
- ☐ c. Data module
- ☐ d. Control module

[Clear my choice](#)

Question **5**

Not yet answered

Marked out of 1.00

Which of the following is typical design domain for the MVC architecture?

- ☒ a. Web server site application
- ☐ b. Hierarchical structure
- ☐ c. Multiple agents in a distributed system
- ☐ d. Web client site application

[Clear my choice](#)Question **6**

Not yet answered

Marked out of 1.00

Which of following software system cannot be designed using PAC ?

- ☐ a. Networked traffic control systems
- ☐ b. Wireless distributed systems
- ☐ c. User interaction systems
- ☒ d. Compiler

[Clear my choice](#)

## Question 7

Not yet answered

Marked out of 1.00

Which are components of Composite design pattern?

- ☐ a. Leaf and Composite
- ☒ b. Component, Composite and Leaf
- ☐ c. Composite, Concrete Composite and Component
- ☐ d. Composite, Component and Builder

[Clear my choice](#)

## Question 8

Not yet answered

Marked out of 1.00

Select a correct statement about PAC (**P**resentation - **A**bstraction - **C**ontrol) architecture:

- ☐ a. None of the others
- ☐ b. The top agent may coordinate low-level agents
- ☒ c. The top agent provides core data and business logics.
- ☐ d. The top agent provides detailed data and presentation.

[Clear my choice](#)

## Question 9

Not yet answered

Marked out of 1.00

Select the benefits of distributed architecture

- ☐ a. Supports multiple views
- ☐ b. Loose coupling of modules
- ☒ c. Scalability
- ☒ d. Supports multiple independent agents

## Question 10

Not yet answered

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A \_\_\_\_\_ is a collection of computational and storage devices connected through a communications network.

- ☒ a. Distributed system
- ☐ b. N-layered system
- ☐ c. Data-centered system
- ☐ d. All of the others

[Clear my choice](#)

Question **11**

Not yet answered

Marked out of 1.00

Select the responsibility of stub in broker architecture

- ☐ a. Mediates between the client and the broker and provides additional transparency between them.
- ☐ b. Hide implementation details when two brokers interoperate.
- ☒ c. Provides APIs for clients to request, servers to respond
- ☐ d. All of the others

[Clear my choice](#)Question **12**

Not yet answered

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Select the type of application which is an example of SOA architecture.

- ☐ a. RMI
- ☐ b. CORBA
- ☒ c. Web service
- ☐ d. Web server

[Clear my choice](#)

Question **13**

Not yet answered

Marked out of 1.00

The benefit of the broker architecture

- ☐ a. Simplicity for clients to access server and server portability.
- ☒ b. All of the others
- ☐ c. Server component implementation and location transparency
- ☐ d. Changeability and extensibility.

[Clear my choice](#)Question **14**

Not yet answered

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In Broker Architecture Style, a broker component is responsible for:

- ☐ a. forwarding and dispatching requests.
- ☐ b. locating a proper server.
- ☒ c. all of the others.
- ☐ d. sending responses or exceptions back to clients.

[Clear my choice](#)

Question **15**

Not yet answered

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Disadvantage(s) of mutil-tiers architecture is(are):

- ☐ a. Difficulty in testing due to lack of testing tools
- ☒ b. All of the others
- ☐ c. Middle layer is hard to change
- ☐ d. Increases traffic on the network

[Clear my choice](#)Question **16**

Not yet answered

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Which of the followings is a benefit of component architecture?

- ☒ a. Incremental
- ☐ b. Concurrency
- ☐ c. Interactive
- ☒ d. Productivity



Question **17**

Not yet answered

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Which is a deployable software package that can provide services to its clients?

- ☐ a. Module
- ☐ b. Class
- ☐ c. None of the others
- ☐ d. Server
- ☒ e. Component

[Clear my choice](#)Question **18**

Not yet answered

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Which are the different between component-oriented design and object-oriented design?

- ☐ a. A component-oriented design represents a higher level of abstraction than an equivalent object-oriented design
- ☐ b. Component-oriented design reduces time in market, lower development costs by reuse of existing components
- ☒ c. All of the others
- ☐ d. Component-oriented design increases reliability with reuse of existing components

[Clear my choice](#)

Question **19**

Not yet answered

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How many categories of connections between components in UML component?

- ☐ a. 2 categories of connections: Ball and cup, I/O stream connection
- ☐ b. None of the others
- ☒ c. 2 categories of connections: Ball to ball or cup to cup (c2c) delegation, I/O stream connection
- ☐ d. 3 categories of connections: Ball and cup, Ball to ball or cup to cup (c2c) delegation, I/O stream connection
- ☐ e. 2 categories of connections: Ball and cup, Ball to ball or cup to cup (c2c) delegation

[Clear my choice](#)Question **20**

Not yet answered

Marked out of 1.00

A \_\_\_\_\_ is a deployable software package that can provide services to its clients.

- ☐ a. component
- ☐ b. package
- ☒ c. class
- ☐ d. structure

[Clear my choice](#)

Question **21**

Not yet answered

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Which are the best architecture Styles about the Software and Hardware independence?

- ☐ a. Layered
- ☐ b. MVC
- ☒ c. Repository
- ☐ d. Virtual machine, SOA

[Clear my choice](#)Question **22**

Not yet answered

Marked out of 1.00

Compared with Service Oriented Architecture (SOA), the advantage of Component Based Architecture (CBA) is the following.

- ☐ a. none of the others
- ☒ b. allows stateful service
- ☐ c. support of new standards such as XML
- ☐ d. platform independent

[Clear my choice](#)

Question **23**

Not yet answered

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Which are approaches to evaluate an architecture design?

- ☒ a. All of the others
- ☐ b. Architecture Trade-off Analysis Method
- ☐ c. Active Reviews for Intermediate Designs
- ☐ d. Software Architecture Analysis Method

[Clear my choice](#)Question **24**

Not yet answered

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Which is NOT the sub-characteristic of maintainability quality attribute?

- ☐ a. Reliability
- ☐ b. Modifiability
- ☐ c. Expandability
- ☒ d. Testability

[Clear my choice](#)

Question **25**

Not yet answered

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Quality attributes are an essential part of the \_\_\_\_\_ of a system.

- ☐ a. nonfunctional requirements
- ☐ b. user requirements
- ☐ c. functional requirements
- ☒ d. all of the others

[Clear my choice](#)