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Started on	Tuesday, 8 October 2024, 5:04 PM
State	Finished
Completed on	Tuesday, 8 October 2024, 5:08 PM
Time taken	3 mins 43 secs
Marks	8.00/10.00
Grade	4.00 out of 5.00 (80%)

Question 1

Correct

Mark 1.00 out of 1.00

What is a primary weakness of adding layers to a system?

- ☐ a. Reduced separation of concerns
- ☐ b. Improved performance
- ☒ c. Increased complexity and cost ✓
- ☐ d. Enhanced reusability

The correct answer is: Increased complexity and cost

Question 2

Correct

Mark 1.00 out of 1.00

What is a limitation of architectural patterns?

- ☒ a. They do not guarantee complete solutions for all scenarios ✓
- ☐ b. They always require extensive customization
- ☐ c. They are universally applicable without modification
- ☐ d. They provide overly complex solutions

The correct answer is: They do not guarantee complete solutions for all scenarios

Question **3**

Correct

Mark 1.00 out of 1.00

What does the "vocabulary" in the Blackboard architecture refer to?

- ☐ a. The user interface elements.
- ☐ b. The programming language used.
- ☐ c. The documentation for the system.
- ☒ d. The set of data elements that can appear on the blackboard. ✓

The correct answer is: The set of data elements that can appear on the blackboard.

Question **4**

Correct

Mark 1.00 out of 1.00

2. Which of the following is NOT a pattern included in the Distributed Systems category?

- ☐ a. Pipes and Filters
- ☒ b. Layered ✓
- ☐ c. Broker
- ☐ d. Microkernel

The correct answer is: Layered

Question **5**

Correct

Mark 1.00 out of 1.00

How many layers are required in a system using the Layers pattern?

- ☐ a. Unlimited
- ☐ b. Only three
- ☒ c. At least two ✓
- ☐ d. At least one

The correct answer is: At least two

Question **6**

Incorrect

Mark 0.00 out of 1.00

What is the main purpose of the control component in bottom-level PAC agents? A. To define data models

- ☐ a. To display information
- ☐ b. To manage user permissions
- ☒ c. To connect presentation and abstraction components ✖

The correct answer is: To display information

Question **7**

Correct

Mark 1.00 out of 1.00

In the Blackboard architecture, what is the purpose of the blackboard?

- ☐ a. To execute all programs sequentially.
- ☐ b. To monitor system performance.
- ☐ c. To manage user interfaces.
- ☒ d. To store the central data structure and solutions. ✔

The correct answer is: To store the central data structure and solutions.

Question **8**

Incorrect

Mark 0.00 out of 1.00

How do intermediate-level PAC agents function? A. They represent high-level system architecture

- ☐ a. They provide a direct user interface
- ☐ b. They handle data storage
- ☒ c. They coordinate between lower-level agents ✖

The correct answer is: They handle data storage

Question **9**

Correct

Mark 1.00 out of 1.00

21. What is a liability associated with the Broker pattern?

- ☐ a. Increased fault tolerance
- ☒ b. Restricted efficiency ✓
- ☐ c. Improved changeability
- ☐ d. Enhanced interoperability

The correct answer is: Restricted efficiency

Question **10**

Correct

Mark 1.00 out of 1.00

11. What is the purpose of a bridge in a Broker system?

- ☐ a. To enhance security of the client-server interaction
- ☐ b. To execute commands on the client side
- ☒ c. To encapsulate system-specific details between two brokers ✓
- ☐ d. To store data temporarily

The correct answer is: To encapsulate system-specific details between two brokers

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