



# S90.03<sup>Q&As</sup>

SOA Design & Architecture

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### QUESTION 1

Service-orientation establishes a distinct approach to carrying out a(n) \_\_\_\_\_. Select the correct answer.

- A. separation of concerns
- B. identification of constructs
- C. inheritance of contracts
- D. refactoring of code

Correct Answer: A

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### QUESTION 2

Which of the following statements are true? SELECT ALL THAT APPLY

- A. The application of service-orientation leads to reduced awareness of underlying service implementation details because the Service Abstraction principle advocates limiting what is published about services.
- B. The application of service-orientation leads to increased consistency in how functionality is expressed in the service contract because the Service Reusability principle advocates deferring service contract information at runtime.
- C. The application of service-orientation leads to increased behavioral predictability and increased availability and scalability as a result of applying the Service Autonomy and Service Statelessness design principles.
- D. The application of service-orientation leads to increased awareness of available services because the Service Discoverability design principle advocates improving the communications quality of published service information.

Correct Answer: ACD

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### QUESTION 3

Which of the following characteristics directly supports or enables behavioral predictability within services? Select the correct answer.

- A. availability (service downtime and periods of unavailability are minimized)
- B. maintainability (the service is easily evolved over time without disrupting existing relationships with service consumers)
- C. reliability (the service provides consistent results and performance)
- D. All of the above.

Correct Answer: D

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#### QUESTION 4

Which service-orientation principle influences the content published about services and further helps avoid the misinterpretation of service contracts? Select the correct answer.

- A. Service Statelessness
- B. Service Discoverability
- C. Service Autonomy
- D. None of the above.

Correct Answer: B

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#### QUESTION 5

The Service Reusability principle can \_\_\_\_\_ demands on infrastructure because services that are reused will typically have \_\_\_\_\_ security, performance, and reliability requirements. Select the correct answer.

- A. increase, reduced
- B. decrease, reduced
- C. eliminate, no
- D. None of the above.

Correct Answer: D

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#### QUESTION 6

Project Team A delivered 3 services and a month later Project Team B delivered 5 services. After an audit of the services delivered by these two project teams, it was determined that 3 of the services delivered by Project Team B contained redundant logic that already resides in 2 of the services originally delivered by Project Team A. The audit results are negative because it is considered undesirable to have redundant logic among services. Which service-orientation principle could have been applied to help avoid this result? Select the correct answer.

- A. Service Statelessness
- B. Service Reusability
- C. Standardized Service Contract
- D. Service Abstraction

Correct Answer: B

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#### QUESTION 7



Which of the following statements reveal common misunderstandings about service- orientation and SOA? SELECT ALL THAT APPLY

- A. In order for an enterprise to be successful with SOA, enterprise-wide standardization is required.
- B. Service-orientation is a revolutionary paradigm that is incompatible with existing paradigms and practices.
- C. Adoption of service-orientation will return an immediate ROI due to its focus on tactical (short-term) requirements fulfillment.
- D. In order for an enterprise to be successful with SOA, an understanding of service- orientation is required.

Correct Answer: ABC

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### QUESTION 8

Which are the three design principles that often act as regulators to ensure that the remaining five principles are properly applied: SELECT ALL THAT APPLY

- A. Service Loose Coupling
- B. Service Abstraction
- C. Service Composability
- D. Service Reusability

Correct Answer: ABC

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### QUESTION 9

Which of the following statements are true? SELECT ALL THAT APPLY

- A. The adoption of service-orientation can result in an increased overall time and cost for the initial delivery of service logic.
- B. The adoption of service-orientation can result in increased design complexity due to a constant emphasis on reuse.
- C. The adoption of service-orientation can result in an emphasis on tactical (short-term) rather than strategic (long-term) planning in order to justify a quick ROI.
- D. The adoption of service-orientation can result in a need to introduce a governance structure that may introduce new organizational roles and processes.

Correct Answer: ABD

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### QUESTION 10

Which of the following statements is true? SELECT ALL THAT APPLY

- A. The Service Composability principle is closely associated with the Service Reusability principle because service



composition can be seen as a form of reuse.

B. The Service Composability principle is highly revolutionary because the concept of aggregating software programs is new to distributed computing.

C. The Service Composability principle emphasizes that services need to be designed to participate as effective members of multiple service compositions.

D. The Service Composability principle prepares services for immediate and eventual participation in compositions.

Correct Answer: ACD

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#### QUESTION 11

When measuring coupling that exists between a service and a service consumer, you can determine the extent of dependency that exists between the service and service consumer.

Select the correct answer.

A. True

B. False

Correct Answer: A

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#### QUESTION 12

A service's functional context determines its: Select the correct answer.

A. purpose and function

B. implementation environment and deployment location

C. scalability and usage thresholds

D. longevity and versioning parameters

Correct Answer: A

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#### QUESTION 13

I have a service composition with three services. Service A retrieves a list of country codes from a database and keeps this data in memory while interacting with Service B and Service C. However, because Service A is concurrently invoked many times, and because each instance of Service A loads its own copy of the country code data into memory, the demands on the overall infrastructure become too high and performance and reliability are negatively affected. Which service-orientation principle can be applied to help solve this problem? Select the correct answer.

A. Service Reusability

B. Service Autonomy



- C. Service Abstraction
- D. Service Statelessness

Correct Answer: D

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#### QUESTION 14

The design principle most associated with an approach whereby the technical interface or contract of a service is designed prior to its underlying logic is: Select the correct answer.

- A. Service Autonomy
- B. Service Reusability
- C. Service Composability
- D. Standardized Service Contract

Correct Answer: D

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#### QUESTION 15

Which of the following is not a negative coupling type? Select the correct answer.

- A. Contract-to-Technology
- B. Contract-to-Logic
- C. Contract-to-Implementation
- D. Consumer-to-Contract

Correct Answer: D

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