

**S90.01.soa**

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## Exam A

### QUESTION 1

Which of the following statements is false?



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- A. Industry standards are usually produced by standards organizations.
- B. Industry standards are usually created by standards committees so that they do not favor any one vendor or organization.
- C. The use of industry standards alone automatically results in fully standardized service-oriented solutions.
- D. XML is an example of an industry standard.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You can create \_\_\_\_\_ or \_\_\_\_\_ service inventories.

- A. process-specific, process-wide
- B. domain, enterprise
- C. domain, process-specific
- D. enterprise, process-specific

**Correct Answer:** B

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**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

\_\_\_\_\_ and \_\_\_\_\_ are used to classify and organize services within a service inventory.

- A. service compositions, service-oriented solutions
- B. service capabilities, service compositions
- C. service models, service layers
- D. service contracts, service capabilities

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 4**

The standardization of services within a service inventory supports the repeated \_\_\_\_\_ of services, thereby increasing their potential reuse.

- A. integration
- B. composition
- C. definition
- D. expression

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 5**

Solution logic is classified as "service-oriented" after:

- A. it has been built using Web services

- B. it has been built using RPC technologies
- C. it has been performance tested to a meaningful extent
- D. service-orientation has been applied to a meaningful extent

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 6

A \_\_\_\_\_ can be part of a/an \_\_\_\_\_ which can be assembled from \_\_\_\_\_ within a/an \_\_\_\_\_.

- A. component, object, enterprises, service
- B. service inventory, service, enterprises, service composition
- C. service, service composition, services, service inventory
- D. service inventory, service, service compositions, enterprise

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

#### QUESTION 7

Two common, yet opposing SOA delivery approaches are:

- A. bottom-up and upside-down
- B. top-down and left-to-right
- C. upside-down and left-to-right
- D. none of the above

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

When designing service-oriented architectures, it is important to take the strategic goal of Increased Vendor Diversity Options into account, because this goal:



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- A. encourages you to commit to one vendor platform and stick with that platform, which fosters long-term flexibility
- B. encourages you to retain the constant option of using proprietary vendor features and extensions so that they can be entrenched into your service-oriented architectures for long-term flexibility
- C. encourages you to retain the constant option to extend or replace parts of your service-oriented architectures with different vendor technologies or products, which fosters long-term flexibility
- D. encourages you to bridge disparity between vendor platforms by using modern transformation technologies for long-term flexibility

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Services can be referred to as \_\_\_\_\_ because of the enterprise-centric design considerations of service-orientation and SOA.

- A. enterprise architectures
- B. enterprise resources
- C. enterprise definitions
- D. enterprise-centric business models

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**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

A service inventory is considered to have normalized services when:

- A. its scope does not overlap with any existing databases
- B. service boundaries within the service inventory do not overlap with each other
- C. each service within the service inventory is not used by more than one service composition
- D. legacy systems within the service inventory boundary do not overlap with each other

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 11**

Service metadata can be centrally registered within a \_\_\_\_\_ for discoverability purposes.

- A. service inventory
- B. service composition
- C. service registry
- D. service model

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

When planning a transition toward SOA, we are usually required to balance the \_\_\_\_\_ goals with the \_\_\_\_\_ requirements.

- A. strategic (long-term), tactical (short-term)
- B. strategic (long-term), unimportant (low priority)
- C. tactical (short-term), unimportant (low priority)
- D. unimportant (low priority), important (high priority)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

Services are ideally designed to be:

- A. agnostic and reusable
- B. unidirectional and semi-granular
- C. linear and logistically decomposable
- D. returnable and non-standardized



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 14

Which of the following statements is false?

- A. Service-orientation is a design paradigm that must be applied on an enterprise-wide basis in order to be successful.
- B. Service-orientation is a design paradigm comprised of a set of design principles.
- C. Service-orientation is an evolutionary design paradigm that has been influenced by older, established IT paradigms and platforms.
- D. Service-orientation is applied to logic in order to create service-oriented logic.

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

When an organization cannot implement a single enterprise service inventory, it has the option to organize collections of services into multiple service inventories referred to as \_\_\_\_\_.

- A. domain service inventories
- B. sub-inventories
- C. sectional service inventories
- D. service inventory subsets

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 16**

A part of a service contract that is commonly standardized is the \_\_\_\_\_.

- A. data model
- B. service agent
- C. service registry
- D. data agent

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**



Service-oriented computing advocates a concept based on the creation of a service layer with standardized and unified endpoints (service contracts) while allowing individual service implementations to remain disparate and independently governed. This concept is known as:



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- A. interoperability
- B. transformation
- C. federation
- D. isolation

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

Service-oriented computing aims to increase an organization's responsiveness by allowing it to adapt to change more efficiently and effectively. This is known as:

- A. organizational diversity
- B. organizational agility
- C. organizational federation
- D. organizational interoperability

**Correct Answer: B**

**Section: (none)**

**Explanation**



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**Explanation/Reference:****QUESTION 19**

One of the fundamental characteristics of service-oriented architecture is:

- A. business-driven
- B. integration-centric
- C. inventory-neutral
- D. silo-driven

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 20**

By applying a \_\_\_\_\_ strategic scope to the technology architecture, it can be kept in constant synch with how the business evolves over time.

- A. consistently decreasing
- B. middleware-centric
- C. vendor-driven
- D. None of the above answers correctly complete this sentence.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 21**

Why is it recommended to establish a service-oriented architectural model that is vendor-neutral?

- A. Because a vendor-neutral architectural model provides you with the opportunity to fully leverage and form dependencies on proprietary (vendor-specific) vendor features.
- B. Because a vendor-neutral architectural model provides you with the opportunity to build service-oriented solutions only with open source technologies, thereby avoiding the use of vendor technologies altogether.

- C. Because a vendor-neutral architectural model provides you with the freedom to diversify its implementation by leveraging multiple vendor technologies as required.
- D. A vendor-neutral service-oriented architectural model is not recommended.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

Service Autonomy, Service Statelessness, and Service Loose Coupling are examples of:

- A. service-oriented architecture types
- B. service-orientation design principles
- C. service models
- D. none of the above

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

Which of the following statements is true?

- A. Service-orientation is a revolutionary design paradigm comprised solely of new design techniques and practices never before used in IT's history.
- B. The only known historical influence of the service-orientation design paradigm is procedural programming.
- C. The service-orientation design paradigm has been influenced by several established design paradigms and platforms.
- D. None of the above statements are true.

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 24**

When enterprise-wide standardization is unattainable, multiple domain service inventories may need to be created instead of:

- A. multiple enterprise service inventories
- B. a single enterprise service inventory
- C. multiple enterprise service registries
- D. a single enterprise service registry

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

The use of \_\_\_\_\_ services tends to \_\_\_\_\_ the size of service compositions.

- A. autonomous, increase
- B. stateless, decrease
- C. scalable, decrease
- D. agnostic, increase

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

The distinct ownership and governance requirements introduced by agnostic services can introduce the need for more \_\_\_\_\_ staff and less \_\_\_\_\_ staff.

- A. management-centric, administration-centric
- B. development-centric, quality assurance-centric

- C. enterprise-centric, project-centric
- D. development-centric, communication-centric

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 27

XML and XML Schema are examples of:



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- A. custom design standards commonly used by service-oriented solutions
- B. custom design characteristics commonly found in service-oriented solutions
- C. industry standards commonly used by service-oriented solutions
- D. industry characteristics commonly found in service-oriented solutions

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 28

Which of the following statements is true?

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- A. Integration is the effort required to enable interoperability. A goal of service-oriented computing is to increase intrinsic integration, thereby reducing the need for interoperability.
- B. Interoperability is the effort required to enable integration. A goal of service-oriented computing is to increase intrinsic integration, thereby reducing the need for interoperability.
- C. Integration is the effort required to enable interoperability. A goal of service-oriented computing is to increase intrinsic interoperability, thereby reducing the need for integration.
- D. Interoperability is the effort required to enable integration. A goal of service-oriented computing is to increase intrinsic interoperability, thereby reducing the need for integration.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

Project Team Alpha delivers Service A for Solution 1. Project Team Beta delivers Service B for Solution 2. Some time later, Project Team Omega wants to reuse Service A and Service B for its new Solution 3. How would Services A and B need to have been designed in order for Project Team Omega to successfully reuse these services without having to resort to a major integration project?

- A. Services always require the use of transformation technologies in order to communicate. Therefore, major integration effort is unavoidable in this scenario.
- B. Services A and B need to reside on the same physical server or workstation, thereby allowing them to be reused without the need for major integration effort.
- C. Services A and B need to be standardized and designed with an emphasis on intrinsic interoperability so that they are compatible regardless of when or by which project team they are delivered.
- D. Service A needs to be designed using a different vendor platform than Service B. This enables vendor diversity, thereby guaranteeing interoperability.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

A fundamental means of achieving business and technology alignment in support of service-oriented computing is:

- A. through the use of a service registry because this allows business and technology-centric services to be located in the same place
- B. through the creation of business services because this enables services to encapsulate and express business logic

- C. through the use of a business registry because this allows for the centralized registration of business analysts
- D. through the creation of a vendor-specific architecture because this supports both the vendor-neutral and business-driven SOA characteristics

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

Complete the following statement with the correct sentence : "The objective of organizational agility is to dramatically reduce the time and effort required to fulfill new or changed business requirements..."

- A. as long as the business requirements doesn't change too often."
- B. once legacy integration has been broadly achieved."
- C. once a collection of mature agnostic services is available."
- D. as long as the organization can continually outsource its IT projects."

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

Service composition is important to the success of SOA initiatives because:

- A. You can only create service-oriented solutions as service compositions.
- B. Services that compose multiple legacy systems can be designed to leverage only the parts of each system that are relevant to the functional context of the service.
- C. Service compositions enable the service-oriented computing goal of Increased Federation by guaranteeing that service endpoints are consistently designed and developed.
- D. Services that can be composed and recomposed support several service-oriented computing goals, including Increased ROI and Increased Organizational Agility.

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

A software program that invokes and interacts with a service is referred to as a:

- A. service contract
- B. service inventory
- C. service container
- D. none of the above

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 34**

The ability of one service to \_\_\_\_\_ another service forms the basis of service \_\_\_\_\_.

- A. divert, diversification
- B. register, registries
- C. consume, composition
- D. integrate, integration

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which of the following statements is true?



- A. For a service consumer to interact with a service it must comply to the requirements of the service contract.
- B. The service contract is used to express meta data about a service for human consumption only, and compliance to the service contract by service consumers is therefore not required.
- C. Service contracts are only used to access a service when the service consumer itself is not a service.
- D. All of these statements are true.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 36

Which of the following statements is false?

- A. The standardization of service contracts supports the strategic goal of Increased Intrinsic Interoperability.
- B. The standardization of service contracts supports the strategic goal of Increased Governance Integration.
- C. The standardization of service contracts is supported by service-orientation.
- D. The standardization of service contracts supports the strategic goal of Increased Federation.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 37

If a service can have one or more service capabilities, then how can a service consumer interact with a service?

- A. It can't. The service must only provide one service capability in order for it to be accessible by service consumers.
- B. Each service capability represents a function that the service has to offer. The service consumer can invoke and interact with one service capability at a time, thereby only using a subset of the service's overall functionality.
- C. Service capabilities are designed to be composed together, which means that in order for a service consumer to interact with a service, it must be designed to invoke all of its service capabilities at the same time.

- D. Services do not have service capabilities that are explicitly invoked. Services almost always exist as event-driven programs that transparently intercept service consumer messages at runtime.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 38

An IT enterprise proceeds with an SOA initiative that is based on the creation of a single enterprise service inventory. However, conflicts arise when different IT departments disagree on who will own the services and how they will be governed. Which of the following alternative approaches could be chosen to address these conflicts?

- A. The top-down approach is chosen. This allows services to be modeled subsequent to their design, thereby enabling each service to be governed by multiple owners.
- B. It is decided to proceed with the creation of multiple domain service inventories. This allows collections of services to be independently governed by different owners, while still enabling the IT enterprise as a whole to transition toward SOA.
- C. The established "contract last" approach is chosen, allowing different IT managers to focus on contract-related governance issues after the services are deployed and in use.
- D. Because SOA projects absolutely require enterprise-wide standardization and further demand the creation of an enterprise service inventory, the IT managers have no choice than to cancel the project.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 39

Project Team A delivers Domain Service Inventory A with 20 services. If Project Team B delivers Domain Service Inventory B with 50 services, how many services are in the Enterprise Service Inventory?

- A. 20
- B. 50
- C. 70

D. An enterprise service inventory is not comprised of domain service inventories.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 40

What is the minimum number of domain service inventories you need in order to create a single enterprise service inventory?

- A. two
- B. three
- C. one for each business domain
- D. An enterprise service inventory is not comprised of domain service inventories.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 41

Four IT managers from different organizations have chosen to adopt SOA. When subsequently interviewed, each was asked to explain why this decision was made. One of the IT managers is confused and chose to adopt SOA for the wrong reasons. Study the following responses and select the one that is not accurate:

- A. "SOA will help us increase the responsiveness of the organization as a whole. When our business encounters change, our IT department will be able to adapt and respond to this change more efficiently and effectively than before."
- B. "SOA will help us increase the amount of value we get from the software programs we build as reusable services. Over time, this will allow us to improve the cost-effectiveness of IT as a whole."
- C. "SOA will help us streamline our IT enterprise. Our goal, ultimately, is to turn the IT department into a part of the organization that provides increased value to the business while reducing its overall burden."
- D. "SOA will help our IT department overcome cultural challenges we've traditionally had with the ownership of EAI (Enterprise Application Integration) platforms. Through the use of proven bridging and transformation technologies introduced by SOA, any IT staff that have historically disagreed with each other about ownership issues, will now be able to overcome their differences."

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

There can be different types or scopes of service-oriented architecture. For example, you could define separate architecture specifications for a service and a service inventory.

- A. True
- B. False

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

Service modeling results in the definition of service candidates prior to the actual design and development of services. Select the correct answer.



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- A. True
- B. False

**Correct Answer: A**

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**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

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

- A. Services are delivered into service inventories and are aggregated into service compositions.
- B. Services are delivered as service compositions that are aggregated into a set of service inventories.
- C. Services are delivered into service compositions that are composed by service inventories.
- D. Services are delivered as service inventories that are composed by other service inventories.

**Correct Answer: BCD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 45**

A Service Level Agreement (SLA) is a common machine-readable document that is considered part of the technical service contract. Select the correct answer.

- A. True
- B. False

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Complete the following statement with the correct: "Service-oriented solutions are commonly subject to performance challenges because they are likely to:  
SELECT ALL THAT APPLY

- A. ...rely on the use of XML-based technologies that can impose additional runtime processing overhead."

- B. ...rely on the use of agnostic services that are generally shared across multiple solutions."
- C. ...be comprised of service compositions that can impose increased data exchange requirements."
- D. ...have been developed using extreme programming techniques and may therefore have not been subjected to the proper quality assurance procedures."

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

When migrating to a service-oriented computing platform you are working toward achieving a specific target environment. Which of the following statements about this target environment are true? SELECT ALL THAT APPLY

- A. In this target environment, services establish a federated endpoint layer.
- B. In this target environment, services are naturally interoperable and composable.
- C. In this target environment, business logic is accurately expressed through services as a result of collaboration between business analysts and technology experts.
- D. This target environment helps the organization itself gain greater value from IT, because IT imposes less of a burden on the organization."

**Correct Answer:** ABCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

Service-oriented computing advocates establishing a technology architecture with increased vendor technology diversity, which means that service-oriented solutions need to be consistently built using different vendor technologies and products. This way, the failure of any one vendor technology or product will not bring down all services within a service inventory. Select the correct answer.

- A. True
- B. False

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

A common security consideration with service-oriented solutions is the need to apply security at the transport layer as opposed to the message layer. Select the correct answer.

- A. True
- B. False

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

From an organizational impact perspective, SOA initiatives can introduce: **SELECT ALL THAT APPLY**

- A. new processes
- B. new roles
- C. new skill-sets
- D. change to how project teams are structured

**Correct Answer:** ABCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

Non-agnostic solution logic is logic that is considered single-purpose because it is unique to a specific task, and therefore not useful to other tasks. Select the correct answer.

- A. True
- B. False

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

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

- A. Service compositions are aggregates of non-service-oriented applications that are grouped together and exposed as a service.
- B. Service compositions are aggregates of services that are grouped together to carry out a specific task.
- C. Service compositions can be classified as service-oriented solutions.
- D. Service composition design is not a common consideration with SOA projects. The emphasis of service-orientation is on producing services that are solely optimized for point-to-point data exchange.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 53**

Service-oriented computing aims to reduce the burden of IT upon the organization as a whole by reducing waste, operational cost, and overhead associated with the governance and evolution of the IT enterprise. Select the correct answer

- A. True B. False

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 54**

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



- A. A service inventory establishes a boundary for a collection of services.
- B. Service inventories represent collections of related services that are independently standardized and governed.
- C. The quantity of services within a service inventory will increase as new services that belong within the service inventory boundary are delivered.
- D. Service inventories are ideally planned and modeled ahead of time via the creation of service inventory blueprints.

**Correct Answer:** ABCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

