S90.02

SOA Technology Concepts

Version 4.0

Exam A

QUESTION 1
Which of the following XML documents can be part of a SOAP-based Web service contract?
SELECT ALL THAT APPLY

A. WSDL definition
B. HTTP definition
C. XML schema
D. WS-Policy definition

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
Which of the following statements does not make sense?

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A. I built 3 SOAP-based Web services, each of which has its own published WSDL definition. 2 of the WSDL definitions share the same XML schema.
B. I built 3 XML schemas, two of which are being shared by the same WSDL definition.
C. I built 3 WSDL definitions and 3 XML schemas. Each WSDL definition is associated with its own XML schema.
D. All of the above statements make sense.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
Which of the following technologies can be used to enable the exchange of data between services?

A. SOAP
B. HTTP
C. WSDL
D. All of the above.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
Which of the following statements is true?

A. REST services primarily rely on the use of SOAP headers to exchange message metadata.
B. REST services primarily rely on the use of JMS headers to exchange message metadata.
C. REST services primarily rely on the use of HTTP headers to exchange message metadata.
D. REST services do not exchange messages with headers.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
Which of the following statements is true?

A. WS-ReliableMessaging establishes a framework that provides an industry-standard means of transforming XML schema-based data models.
B. WS-ReliableMessaging establishes a framework that provides an industry-standard means of rolling back changes that occur during a runtime service transaction.
C. WS-ReliableMessaging establishes a framework that provides an industry-standard means of reliably communicating policy enforcement rules.
D. None of these statements are true.

Correct Answer: D

QUESTION 6
Using WS-AtomicTransaction you wrap 3 SOAP-based Web services in a single transaction. When it is time to vote on the outcome of the transaction, 2 of the services vote to commit the changes made during the transaction, but a vote from the third service is not received. What will happen?

A. The changes are committed because the transaction is considered successful as long as no Abort votes are received.
B. The changes are rolled back because the transaction is considered unsuccessful when there is a missing vote.
C. The changes are committed because the transaction is considered successful as long as one Commit vote is received.
D. The changes are aborted because a transaction can only be considered successful when more than 2 Commit votes are received.

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 7
XSLT is a technology that is primarily used to address _____.

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A. technology protocol bridging requirements (such as when .NET and Java components need to speak to each other)
B. data model transformation requirements (such as when similar data based on different XML schemas needs to be exchanged)
C. layer transformation requirements (such as when data located in different architectural layers needs to be exchanged between architectural layers)
D. service transformation requirements (such as when two versions of the same service exist)

Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:

QUESTION 8
WS-BPEL process definitions can be encapsulated by and exposed as SOAP-based Web services.

A. True
B. False

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
Which of the following statements makes sense?

A. I have 3 REST services, 2 of which do not support the PUT method.
B. I have 3 REST services, 2 of which have a PUT operation in the SOAP header schemas of their WSDL definitions.
C. I have 3 REST services, 2 of which do not support HTTP.
D. None of these statements make sense.

Correct Answer: A
Section: (none) Explanation

Explanation/Reference:

QUESTION 10
Messages transmitted using WS-ReliableMessaging are typically _____ into _____.

A. decomposed, HTTP methods
B. parsed, WS-Policy definitions
C. grouped, sequences
D. converted, comma-separated-value (CSV) files

Correct Answer: C
QUESTION 11
When designing REST services within a given domain, you establish _____ that are represented by unique identifiers, usually in the format of _____.

A. resources, HTTPs/HTTPSs
B. mashups, HTTPs/HTTPSs
C. resources, URLs/URIs
D. mashups, URLs/URIs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
Which of the following statements is true?

A. WS-BusinessActivity is used for short-running, ACID-style transactions that can be rolled back to their original state.
B. WS-BusinessActivity is used for long-running transactions that are not expected to be rolled back to their original state.
C. WS-BusinessActivity provides an alternative to WS-Coordination.
D. None of these statements are true.

Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:

QUESTION 13

Section: (none)
Explanation

Explanation/Reference:
An XML schema can be used to define XML documents that can be shared by components, SOAP-based Web services, and REST services.

A. True
B. False

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
A SOAP message is an XML document that is comprised of a set of pre-defined parts. Which of the following are parts that can be found in a SOAP message?
(Select all that apply.)

A. Envelope
B. Body
C. Header
D. Footer

Correct Answer: ABC
Section: (none) Explanation

Explanation/Reference:

QUESTION 15
Data model transformation is a core service function that can be performed by proven technologies that have been around for years. Therefore, it is recommended that you look for opportunities to apply this technology wherever possible, especially in larger, more complex service compositions.

A. True
B. False

Correct Answer: B
QUESTION 16

A SOAP-based Web service is required to transmit an XML-based invoice document to a REST service. However, the SOAP-based Web service is designed to represent invoice data using an XML schema that is different from the XML schema used within the REST service. How can the disparity between the XML schemas, used by these two services, be overcome so that they can exchange the invoice document?

A. A layer of data format transformation logic needs to be introduced based on mashup technologies, such as DTD and WS-Transform.
B. A layer of protocol transformation logic needs to be introduced based on Web technologies, such as HTTP and FTP.
C. A layer of data model transformation logic needs to be introduced, based on XML technologies, such as XSLT.
D. There is no technique or technology for overcoming differences between XML schemas.

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 17
Which of the following can be part of technical service contract?

A. WSDL operation
B. component methodC. HTTP method
D. Each of the above can be part of a technical service contract, depending on which technology platform is chosen to build the service.

Correct Answer: D
Section: (none) Explanation

Explanation/Reference:

QUESTION 18
Which of the following statements is true?

Explanation/Reference:
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A. WS-Policy allows for the definition of policies that can be ignored by service consumers.
B. WS-Policy allows for the definition of procedure-related policies that can be attached to database tables.
C. WS-Policy allows for the definition of MEP policies that are limited to outbound MEPs only.
D. None of these statements are true.

Correct Answer: A
Section: (none) Explanation

Explanation/Reference:

QUESTION 19
Which of the following statements is true?

A. WS-ReliableMessaging standardizes reliability levels associated with databases required to persist state data.
B. WS-ReliableMessaging standardizes the issuance and delivery of positive and negative acknowledgement messages.
C. WS-ReliableMessaging standardizes SOAP headers related to atomic transactions with rollback features.
D. WS-ReliableMessaging standardizes the expression of service composition logic, but only for SOAP-based Web services.

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 20
Which of the following statements makes sense?

A. I designed a unique XML schema for each of my REST services so that the HTTP methods used by these services are consistently named.
B. My REST services are limited to the use of the GET HTTP method because only one XML schema was designed for all of them. In order to support additional

HTTP methods, additional XML schemas will need to be designed due to the inherent dependency HTTP has on the XML Schema Definition Language.

C. I designed my REST services to share the same XML schema.

D. XML schemas cannot be used by REST services.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21

Identify what is wrong with this statement: "SOAP-based Web services A and B are participating in a runtime transaction that is carried out as per the WSAtomicTransaction standard. When a message sent by Service A is rejected by Service B due to a violation of a WS-Policy definition expressed as part of the Service B contract, Service A is forced to issue an Abort message, thereby requiring the transaction to be rolled back."

A. WS-AtomicTransaction does not support the rollback of changes that occur during runtime transactions.

B. WS-Policy definitions are not expressed as part of the service contract.

C. SOAP-based Web services cannot have policies and cannot participate in runtime transactions because they are limited to the use of a uniform service contract.

D. There is nothing wrong with this statement.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22

Which of the following statements is true?

A. Service activities represent runtime activity that occurs within the underlying service logic.

B. Service activities represent design-time message exchanges that are established between SOAP-based Web services and defined as part of the operation definition within the WSDL definition.

C. Service activities represent runtime activity that occurs between services.

D. Service activities represent runtime activity that occurs between complex and simple XML Schema types.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
When two compatible SOAP-based Web services need to exchange an XML document that is compliant with the XML schema shared by both services, then:

A. A data model transformation technology, such as XSLT, must be used to enable the data exchange.
B. A new XML schema must be created to overcome the disparity between how each service defines the data model for the XML document.
C. A WS-Policy definition must be created to establish rules that address any differences in the XML document exchange.
D. None of the above.

Correct Answer: D
Section: (none) Explanation

Explanation/Reference:

QUESTION 24
Which of the following are associated with the functionality provided by a typical enterprise service bus?

A. reliable message delivery
B. intermediate message routing
C. temporary storage of messages in queues
D. All of the above.

Correct Answer: D
Section: (none) Explanation

Explanation/Reference:
QUESTION 25
Identify what is wrong with this statement: "Component A invoked SOAP-based Web Service B, which invoked REST Service C."

A. Components cannot invoke SOAP-based Web services. A SOAP-based Web service can only be invoked by another SOAP-based Web service.
B. SOAP-based Web services cannot invoke REST services. A REST service can only be invoked by another REST service.
C. Because they require different transport protocols, the same data cannot be sent from a component to a SOAP-based Web service and then to a REST service.
D. There is nothing wrong with this statement.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
I would like to add two different WS-Policy definitions to my SOAP-based Web service and I would like to give the service consumer the choice to comply to either policy. How can I do this?

A. Create a separate XML schema for each policy and attach both XML schemas to the service's WSDL definition.
B. Create the two separate policies and group them in a policy alternative that is then associated with the service's WSDL definition.
C. Communicate each policy through a separate WS-Addressing SOAP header and let the service consumer choose which header to use.
D. You cannot do this.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27

Which of the following statements is true?

A. A service enters the service provider role when it initiates contact with other services, including those that act as intermediaries.
B. A service enters the service provider role when it initiates contact with intermediaries only.
C. A service enters the service provider role when it is accessed by other service consumers, including intermediaries.
D. A service enters the service provider role when it is accessed by intermediaries only.
Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 28
Which of the following technologies has a namespace pre-defined by an industry standards organization?

A. WS-Addressing
B. REST
C. Web 2.0
D. Because all Web-based technologies are required to have namespaces, all of the above technologies have pre-defined namespaces.

Correct Answer: A
Section: (none) Explanation

Explanation/Reference:

QUESTION 29
An intermediary can be an initial sender or an ultimate receiver.

A. True
B. False

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 30
Which type of MEP is not encouraged by the WS-I and also not supported in WSDL 2.0?

A. round-about

B. intermediate

C. call-back

D. outbound

Correct Answer: D
Section: (none) Explanation

Explanation/Reference:

QUESTION 31

Which of the following statements makes sense?

A. I created a WS-BPEL process definition that composes 6 SOAP-based Web services, 2 of which also invoke other SOAP-based Web Services.

B. I created a WS-BPEL process definition that establishes industry standard routing-related SOAP headers capable of routing six messages.

C. I created a WS-BPEL process definition that establishes an industry standard framework for issuing positive and negative acknowledgements.

D. None of these statements make sense.

Correct Answer: ABD
Section: (none) Explanation

Explanation/Reference:

QUESTION 32

XML can be used to structure data passed between REST services, but REST introduces rules that limit the extent to which XML elements and attributes can be nested.

A. True

B. False

Correct Answer: B **Section:**
(none)
Explanation
QUESTION 33

Explanation/Reference:

Which of the following statements is true?

A. XML documents can be exchanged by REST services.
B. XML documents can be exchanged by SOAP-based Web services.
C. XML documents can be exchanged by component-based services.
D. All of these statements are true.
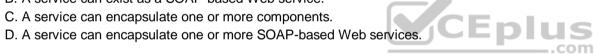
Correct Answer: D
Section: (none) Explanation

Explanation/Reference:

QUESTION 34
Which of the following statements are true? (Select all that apply.)

A. A service can exist as a component.
B. A service can exist as a SOAP-based Web service.
C. A service can encapsulate one or more components.
D. A service can encapsulate one or more SOAP-based Web services.

Correct Answer: ABCB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
A WSDL document defines a series of _____, each of which represents a function that a SOAP-based Web service is capable of performing.

A. operations
B. namespaces
C. extensions
D. types

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
An XML schema can be linked to any number of XML documents, but an XML document can link to only one XML schema.

A. True
B. False

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
The XML language is expressed through the use of:

A. elements or tags
B. databases or repositories
C. services or components

Explanation/Reference:

D. service compositions or orchestrations

Correct Answer: A
Section: (none)
Explanation QUESTION 38
Which of the following service technologies is primarily associated with service discovery?

A. RPC
B. DTD
C. UDDI
D. SAML

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 39
Which of the following are industry standard technologies related to the processing of XML-based data? (Select all that apply.)

A. XData
B. XQuery
C. XSLT
D. XWeb

Correct Answer: BC
Section: (none) Explanation

Explanation/Reference:

QUESTION 40
A namespace can be considered a form of:

A. unique identifier
B. redundant identifierC. duplicate identifier

D. Namespaces are not identifiers; they are always pre-defined values that we are required to work with.

Correct Answer: A
Section: (none) Explanation

Explanation/Reference:

QUESTION 41
Identify what is wrong with the following statement: "I have a single Calculator component that provides basic math functions. I'm exposing this component as a component-based service for internal service consumers that are also component-based. I'm exposing this component as a SOAP-based Web service for internal and external service consumers that support SOAP messaging. I'm also exposing this component as a REST service for external service consumers that prefer to access its functions via HTTP methods. I'm also exposing this component as a service agent for service consumers that support explicit invocation via a service contract." (Select all that apply.)

A. A single component cannot be exposed as a component-based service, a SOAP-based Web service and a REST service at the same time.
B. SOAP-based Web service consumer programs cannot be both internally and externally located.
C. The uniform contract required by REST services does not support the use of HTTP methods.
D. Service agents are event-driven and are therefore not explicitly invoked via a service contract.

Correct Answer: D **Section:**
(none) Explanation

Explanation/Reference:

QUESTION 42
Orchestration is most commonly associated with which industry standard?

A. WS-Addressing
B. XML Schema
C. WS-BPEL
D. WS-Policy

Explanation/Reference:

Correct Answer: C **Section:**
(none) Explanation
QUESTION 43
XML schemas are comparable to database records. Therefore, XML documents that are based on XML schemas are comparable to database data models.

A. True
B. False

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 44
Which of the following statements is true?

A. WS-Coordination establishes a base coordination framework for which WS-Addressing and WS-Routing provide additional protocols and rules.
B. WS-Coordination establishes a base coordination framework for which XML Schema and WS-Addressing provide additional protocols and rules.
C. WS-Coordination establishes a base coordination framework for which WS-AtomicTransaction and WS-BusinessActivity provide additional protocols and rules.
   D. WS-Coordination does not establish a base coordination framework. The name of the specification is deceiving as it actually defines a series of generic routing protocols.

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 45
A _____ establishes a common access point generally based on HTTP methods used by _____.

A. WSDL definition, SOAP-based Web service
B. uniform contract, REST services
C. XML schemas, components
D. None of the above

Correct Answer: B

Section: (none)

Explanation/Reference:

Explanation

Explanation/Reference:

QUESTION 46
XML is a form of:

A. microdata
B. metadata
C. valid data
D. relational data

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 47
Which of the following statements is false?

A. Services built as components can expose a non-industry-standard technical service contract.
B. Services built as components can be assembled into service compositions.
C. Services built as components always have a decoupled service contract that exists as a physically separate XML document.
D. Services cannot be built as components.

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 48
The amount of services participating in a service activity, the duration of the service activity, the amount of service activity instances that concurrently exist, and rules associated with the service activity are all examples of:

A. design-time data that is defined via the WSDL data definition language

B. runtime data that is expressed as part of a WSDL service operation definition

C. state or context data that can be managed using WS-Coordination

D. repository resource data that can be managed using WS-Policy via persistence in a database for long-term storage

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 49
Which of the following statements is false?

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A. Multiple XML documents can link to the same XML schema.

B. One XML document can link to multiple XML schemas.

C. XML schemas cannot be embedded within XML documents.

D. XML schemas can exist as separate files.

Correct Answer: C
Section: (none) Explanation

Explanation/Reference:

QUESTION 50
Which of the following service designs are considered not supportive of service-orientation due to improper selection of technologies? (Select all that apply.)

A. A REST service designed to respond to service consumers via standard HTTP response codes.

B. A SOAP-based Web service designed with a service contract that includes WS-Policy definitions that disallow communication using SOAP messages.

C. A reusable component-based service designed to reject messages containing XML so as to limit communication to RPC-centric MEPs.

D. A SOAP-based Web service designed with a decoupled service contract that includes a standardized XML schema.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
Which of the following statements makes sense?

A. I discovered the service I was looking for by using WS-Addressing to issue service search queries.
B. I discovered the service I was looking for by building a WS-BPEL process definition.
C. I discovered the service I was looking for by searching the UDDI-compliant service registry.
D. None of these statements make sense.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
Which of the following statements is true?

A. An initial sender is at the beginning of the message path, whereas the service consumer is at the end of the message path.
B. An intermediary service transitions through the initial sender role when it invokes another service provider.
C. An initial sender is the service consumer at the beginning of the message path, whereas the ultimate receiver is the service provider at the end of the message path.
D. An initial sender is not related to the message path but is instead a part of hybrid service component composition sequences.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
QUESTION 53
To create REST services, you are required to deploy an enterprise service bus due to the need for inherent message routing functionality.

A. True
B. False

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
I would like to extend my WSDL definition to include a programmatically consumable statement that communicates that upon receiving a message the service will add an entry to an event log. Which technology should I use?

A. Mashup
B. XSLT
C. REST
D. None of the above.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
WS-Addressing is most commonly associated with _____ functionality.

A. process management
B. policy enforcement
C. message routing
D. choreography

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
Which of the following statements is true?

A. Individual service contracts do not need to be published for SOAP-based Web services. Instead, they use a uniform contract.
B. Individual service contracts do not need to be published for REST services. Instead, they use a common uniform contract.
C. Components provide published contracts, but when building services as components, components must use a uniform contract instead.
D. None of these statements are true.

Correct Answer: B
Section: (none) Explanation

Explanation/Reference:

QUESTION 57
If Service B is invoked by Service A and then Service B invokes Service C and all of this happens as part of the same service activity, then Service B would be considered:

A. an intermediary
B. a service agent
C. an ultimate receiver
D. an initial sender

Correct Answer: A
Section: (none) Explanation

Explanation/Reference: