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Exam Name: Java Enterprise Edition 5 Web Services
Developer Certified Professional Upgrade Exam

Version: Demo

QUESTION NO: 1

Which two statements are true about JAXR support for XML registries? (Choose two.)

- A. The CapabilityProfile tells a client the capability level of a registry.
- B. UDDI registries must support ebXML to be compatible with JAXR.
- C. The UnsupportedCapabilityException is processed for errors from non-Java providers.
- D. The JAXR API declares methods as level 0 or level 1.
- E. JAXR registry clients present an XML schema that defines the infomodel for the provider.

Answer: A,D

QUESTION NO: 2

Which two statements are true about the interaction between a JAXR 1.0 client and a UDDI registry? (Choose two.)

- A. A JAXR client can delete an organization that it published.
- B. A JAXR client CANNOT delete any of the entries in a UDDI registry.
- C. A JAXR client must use HTTPS for updating the information in a UDDI registry.
- D. A JAXR client can query and update the information in a UDDI registry using HTTP.
- E. A JAXR client can delete an organization that it published only if the protect property is set to False.

Answer: A,C

QUESTION NO: 3

Which JAXR interface allows querying a business registry using SQL commands?

- A. javax.xml.registry.Connection at level 0
- B. javax.xml.registry.FederatedConnection at Level 1
- C. javax.xml.registry.BusinessQueryManager at level 0
- D. javax.xml.registry.DeclarativeQueryManager at level 1
- E. javax.xml.registry.BusinessQueryManager at level 1
- F. javax.xml.registry.DeclarativeQueryManager at level 0

Answer: D

QUESTION NO: 4

Which two statements are true about the interoperability of Web services developed using the Java EE 5 platform? (Choose two.)

- A. Interoperability is improved by restricting access only to Java clients.
- B. EJB-based endpoints are more difficult for .NET clients to access.
- C. Only servlet-based endpoints are used when exposing services to non-Java clients.
- D. Exposure is limited to simple arrays of concrete types as the signature of Web service methods.
- E. The service must be published in both the .NET and Java UDDIs.
- F. Testing for WS-I Profile conformance improves interoperability.

Answer: D,F

QUESTION NO: 5

A company needs to process DOM documents received from its customers through an EJB3 endpoint. Which two APIs will a developer need to invoke to process these DOM documents? (Choose two.)

- A. UDDI
- B. JAXR
- C. JAXP
- D. JAX-WS
- E. JAXB
- F. StAX

Answer: C,F

QUESTION NO: 6

What are two valid facts about WS-I? (Choose two.)

- A. The I-Stack is a great development tool.
- B. The WS-I promotes and supports generic protocols for the interoperable exchange of

messages.

- C. The WS-I governs languages and protocols such as SOAP, WSDL, and UDDI.
- D. The WS-I specifies specific rules that address either weaknesses in component specifications or issues of how to combine the collected technology.
- E. The WS-I has been a guiding force in creating StAX.

Answer: B,D

QUESTION NO: 7

A company is building a Java EE 5 purchase order processing system. This system will integrate with an external invoicing system as part of the purchase order approval process. A developer created a new client application to access the invoicing system using request-response, but a new service call is receiving errors every time it invokes the necessary Web service.

Which statement is true about the Body element of the SOAP reply message?

- A. It must NOT contain any fault elements.
- B. It will contain a fault element for each error.
- C. It will contain exactly one fault element.
- D. It must contain zero or one fault element.
- E. It must contain an array of fault elements.

Answer: D

QUESTION NO: 8

A company is building a customer relationship management system that is to be deployed on a customer's network, and they want software functions to be reused and combined in different modules in the system. The Director of Technology has determined that the new system should utilize both Web services and a Service Oriented Architecture (SOA). Which two statements about Web services in an SOA are correct? (Choose two.)

- A. A Web service must be discovered from a UDDI registry in an SOA.
- B. SOA and Web services both use the HTTP protocol at the transport layer.
- C. A Web service must publish itself to a UDDI registry to become part of an SOA.
- D. SOA is a way to design a system and Web services are a possible implementation.
- E. SOA is used for stateless invocations, and Web services for stateful invocations.
- F. SOA emphasizes the concept of service encapsulation and Web services fulfill a service

contract.

Answer: D,F

QUESTION NO: 9

A company's new investment management Java application and a legacy stock trader application need to communicate, but they use different JMS implementations. A developer decides to implement a JMS bridge to solve the problem. Which two advantages does this pattern provide? (Choose two.)

- A. It converts the interface of a class into another interface that clients expect.
- B. It decouples an abstraction from its implementation so that the two can vary independently.
- C. It dynamically attaches additional responsibilities to an object.
- D. It optimizes network traffic.
- E. It is vendor independent.

Answer: B,E

QUESTION NO: 10

Which two statements are true about the Web services? (Choose two.)

- A. SOAP messages are compressed during transport.
- B. You must implement session tracking via HTTP cookies.
- C. The WSDL defines services as collections of network endpoints.
- D. All data shared between Java and non-Java components must be in XML format.
- E. Data interchange is standardized in XML.
- F. Stateful Web services must be implemented in a heterogeneous environment.

Answer: C,E

QUESTION NO: 11

A team of developers is describing a set of endpoints in their new SOA application.

Given the WSDL extract:

```
<service name="InventoryServices">  
  
<port name="PurchaseOrder" binding="tns:POBinding">  
  
<soap:address location="http://192.168.0.2:8080/inventory"/>  
  
</port>  
  
<port name="Invoice" binding="tns:InvoiceBinding">  
  
<soap:address location="http://192.168.0.2:8080/inventory"/>  
  
</port>  
  
</service>
```

Which statement is true about this WSDL extract?

- A.** The extract is WS-I Basic Profile 1.1 compliant because both port element names are different.
- B.** The extract is NOT WS-I Basic Profile 1.1 compliant because both port elements point to the same location.
- C.** The extract is WS-I Basic Profile 1.1 compliant because both port elements point to different binding elements.
- D.** The extract is NOT WS-I Basic Profile 1.1 compliant because it contains two port elements in the same service.
- E.** The extract is WS-I Basic Profile 1.1 conformant because both port element names are different.
- F.** The extract is WS-I Basic Profile 1.1 conformant because the port, binding, and service element combinations are unique.

Answer: B

QUESTION NO: 12

Which two statements are true about the role of XML schemas in Web services? (Choose two.)

- A.** DTDs provide stricter data typing than XML schemas.
- B.** XML schemas can be used to validate the organization of XML documents.
- C.** XML schemas contain a vocabulary, content model and data types.
- D.** DTDs are easier to map to Java than XML schemas, and so remain more popular.
- E.** The W3C recommends that XML schemas be referred to as XSD.

F. The W3C has designated that XML schemas be referred to as WXS.

Answer: B,C

QUESTION NO: 13

A developer must modify an existing Web service client program. XML used by the service must be updated and archived for use in other systems. The developer chooses the Dispatch API. Which two statements are true about this approach? (Choose two.)

- A. Dispatch is generic and can be instantiated for use with XML or SOAP.
- B. The Web service can be either SOAP or REST-based.
- C. The Dispatch instance must be created in Service.Mode.PAYLOAD mode in order to use SOAP.
- D. Instantiating Dispatch Service.Mode.MESSAGE mode allows you to work directly with the XML message.
- E. It is unnecessary to use JAXB with the Dispatch API.

Answer: A,B

QUESTION NO: 14

Which two statements are true about JAX-WS support for data bindings? (Choose two.)

- A. Data binding is performed with only generated classes to reduce errors and hide complexity.
- B. JAXB 2.0 is preferred.
- C. Inline binding declarations with XML Schema are NOT supported for JAXB 2.0.
- D. SAAJ 1.3 is supported for data binding with SOAP.
- E. JAX-RPC data binding is recommended for cross-platform interoperability.

Answer: B,D

QUESTION NO: 15

A developer needs to write a Web service that supports user sessions that timeout after 120 seconds. Which configuration file is correct for the developer use?

-
- A. web.xml
 - B. server.xml
 - C. ejb-jar.xml
 - D. service-config.xml

Answer: A

QUESTION NO: 16

Which two statements are true about the I-Stack and annotations technologies? (Choose two.)

- A. With 64-bit Java, JAXB compatible parameters are preferred for performance.
- B. @WebMethod is required for private methods, but public methods are exposed in any service automatically.
- C. Declaring business methods final is a good way to protect the integrity of the implementation class.
- D. Method parameters and return types must be compatible with the JAXB 2.0.
- E. JAX-WS uses annotations to invoke Web service requests at runtime.

Answer: D,E

QUESTION NO: 17

Which two statements are true about creating a Web service with JAX-WS? (Choose two.)

- A. Stateless Web services must be created with HTTP servlet endpoints.
- B. Creating the portable artifacts by hand is slow, but makes a service easier to maintain.
- C. All Java-based endpoints share a common packaging model.
- D. EJBs can serve as endpoints if hosted in a container with runtime and service support.
- E. JAX-WS supports creating services from source and compiled code without a WSDL.

Answer: D,E

QUESTION NO: 18

A developer is asked to consult on a Web services project and assist the team with a good design approach on a new project. The team members disagree on whether to use WSDL or Java first.

Several members are skilled with XML and see a schema and WSDL as the correct place to start. The team has also learned the deadline for this project has been moved up and another team plans to reuse their code. Which statement is true about the proper course of action to take in this situation?

- A. Java should be used first because it is a strongly typed language and will result in a robust WSDL.
- B. WSDL should be used first because it will make the code easier to reuse for the other team.
- C. Java should be used first because it is often the fastest and easiest approach.
- D. WSDL should be used first because the team knows XML Schema.

Answer: C

QUESTION NO: 19

Which statement is true about JAX-WS dynamic invocation?

- A. Dynamic invocation clients use RPC typed interfaces to invoke the Web service.
- B. Dynamic invocation lets clients access a Web service without a WSDL.
- C. Dynamic invocation clients are bound at design-time to a single Web service.
- D. Dynamic invocation requires the client to statically configure the Web service proxy.
- E. The dynamic proxies provide dynamic invocation in JAX-WS.

Answer: B

QUESTION NO: 20

Which three can an EJB-based endpoint use? (Choose three.)

- A. HTTP sessions
- B. Java EE 5 declarative security
- C. Java EE 5 programmatic security
- D. client-demarcated transactions
- E. container-managed transactions

Answer: B,C,E

QUESTION NO: 21

A client sends a required SOAP header as a SOAP message. The server-side process determines that information in the header is invalid and generates a SOAP fault. What is the appropriate fault code for this type of SOAP fault?

- A. Client
- B. Server
- C. MustUnderstand
- D. VersionMismatch
- E. HeaderError
- F. InvalidHeader

Answer: A

QUESTION NO: 22

A company is creating an XML schema that describes various training materials available for purchase by students.

Given the namespace aliases and schema that appear in the WSDL file for a document-style Web service:

```
xmlns:xsd="http://schemas.xmlsoap.org/wsdl/"
```

```
xmlns:book="http://www.sun.com/books"
```

```
...
```

```
<xsd:schema targetNamespace="http://www.sun.com/books">
```

```
<xsd:element name="bookInfo">
```

```
<xsd:complexType>
```

```
<xsd:sequence>
```

```
<xsd:element name="author" type="xsd:string"/>
```

```
<xsd:element name="title" type="xsd:string"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

</xsd:element>

</xsd:schema>

Which is a valid message element for this WSDL file?

- A.** <message name="SubmitBookInfoMessage">
<part name="bookInfo" type="xsd:bookInfo"/> </message>
- B.** <message name="SubmitBookInfoMessage">
<part name="bookInfo" type="book:bookInfo"/>
</message>
- C.** <message name="SubmitBookInfoMessage">
<part name="bookInfo" element="xsd:bookInfo"/>
</message>
- D.** <message name="SubmitBookInfoMessage">
<part name="bookInfo" element="book:bookInfo"/>
</message>
- E.** <message name="SubmitBookInfoMessage">
<part element="bookInfo" type="xsd:bookInfo"/>
</message>
- F.** <message name="SubmitBookInfoMessage">
<part element="bookInfo" type="book:bookInfo"/>
</message>

Answer: D

QUESTION NO: 23

A document-style service defines a document passed to the Web service using xsd:anyType in the WSDL file that describes the service. How should the document be typed in Java?

- A.** use javax.xml.soap.Element
- B.** use javax.xml.soap.Node
- C.** use javax.xml.soap.SOAPHeader
- D.** use javax.xml.soap.SOAPElement
- E.** use javax.xml.soap.SOAPFault
- F.** use javax.xml.soap.SOAPBodyElement

Answer: D

QUESTION NO: 24

A developer is creating a session bean EJB endpoint for a new application. Which three statements are true about the service? (Choose three.)

- A. It needs to be packaged as a WAR file.
- B. It needs to be packaged as a JAR file.
- C. It needs to be packaged as a .lib file.
- D. The class must not be final or abstract.
- E. It must implement the javax.ejb.SessionBean or javax.ejb.EntityBean interface.
- F. It can be declared an EJB via the @Stateless annotation.

Answer: B,D,F

QUESTION NO: 25

Which three statements about parsers are true? (Choose three.)

- A. SAX and StAX are bi-directional.
- B. DOM and StAX are bi-directional.
- C. StAX is a push API, whereas SAX is pull.
- D. SAX is a push API, whereas StAX is pull.
- E. SAX and StAX are read-only.
- F. SAX and DOM can write XML documents.
- G. StAX and DOM can write XML documents.

Answer: B,D,G

QUESTION NO: 26

A developer who recently added message optimization support to the company's Web services is tasked with explaining how the next crop of WSIT client applications will use the feature. Which statement is true?

- A. Client developers should have experience with the SAAJ and MIME types to use MTOM with the service.
- B. The clients should use the service WSDL to discover and satisfy the interoperability requirements.
- C. Adding message optimization is a manual step when the WSDL is available on HTTPS.

D. The encryption for optimization requires a client keystore.

Answer: B

QUESTION NO: 27

A developer is analyzing an existing Web service with performance problems. The analysis reveals the service employs SOAP over HTTP. When the size of the encoded binary files grew with changing business requirements, the service slowed. What are two effective solutions for this problem? (Choose two.)

- A. Separating the XML and binary content with WS-Filtering implemented in WSIT will improve efficiency.
- B. XML documents larger than 1 KB with binary encoding should be optimized.
- C. WS-Addressing can ease congestion by routing messages over other protocols.
- D. For existing services, the most effective solution is to increase the available bandwidth.
- E. MTOM can reduce both processing and bandwidth required by SOAP with attachments.

Answer: B,E

QUESTION NO: 28

Given:

1. try { // Call Web service Operation
2. org.me.calculator.client.CalculatorWS port =
3. service.getCalculatorWSPort();
4. // TODO initialize WS operation arguments here
5. int i = 3;
6. int j = 4;
7. // TODO process result here
8. int result = port.add(i, j);
9. out.println("<p>Result: " + result);

```
10.  
11. } catch (Exception ex) {  
12. out.println("<p>Exception: " + ex);  
13. }
```

Assume Reliable Messaging is used and the code is correct except for what is missing at line 10.

Which code fragment must be placed at line 10?

- A. Close the port object with `((Closeable)port).close();` after testing result is positive.
- B. Close the port with `port.close();`
- C. Closing the port object is optional, but `port.close();` will work.
- D. Close the port object with `((Closeable)port).close();`

Answer: D

QUESTION NO: 29

Given the Java fragment and schema:

1. `//-- Java code fragment`
2. `public class PurchaseOrder{`
3. `public javax.xml.datatype.XMLGregorianCalendar orderDate;`
4. `}`
5. `//-- Schema fragment`
6. `<xs:complexType name="purchaseOrder">`
7. `<xs:sequence>`
8. `<xs:element name="orderDate" type="xs:anySimpleType"`
9. `minOccurs="0"/>`
10. `</xs:sequence>`
11. `</xs:complexType>`

Which two statements are true about .Net and WCF interoperability for this data? (Choose two.)

- A. The GregorianCalendar maps to an equivalent date type in both Java and .Net.
- B. .Net will generate code with the calendar as a string that functions as well as a date.
- C. .Net will generate code with the calendar as a string that is not type equivalent.
- D. Use of the @XmlSchemaType annotation causes .Net to properly map to a date.
- E. Casting in the case of WSIT services is an effective approach for the WCF client.

Answer: C,D

QUESTION NO: 30

A purchase order Web service is designed to be synchronous, request-response, and HTTP-based. The existing service processes the request immediately. Because of new business requirements, the service can take up to ten days to perform a credit check before processing the order. Which two design changes need to be made? (Choose two.)

- A. The client needs to use dynamic proxies instead of stubs.
- B. The client needs to develop and deploy a Web service to accept callbacks.
- C. The service only needs to change the WSDL from rpc-literal to document-literal.
- D. The client and the service need to establish a mechanism to correlate the messages.
- E. Given delays of up to ten days, a polling strategy is more efficient than callback.

Answer: B,D

QUESTION NO: 31

A developer is writing a Web service method that needs to accept multiple types of requests. Based on the request's content, the service performs time-consuming steps, such as verifying the user's account, checking credit ratings, and building a list of offers. Which two approaches are appropriate to use in this situation? (Choose two.)

- A. a synchronous, document-style approach
- B. a synchronous, procedure-style approach
- C. an asynchronous, document-style approach
- D. an asynchronous, procedure-style approach
- E. HTTP and HTTPS
- F. SMTP or other asynchronous protocol

Answer: C,F

QUESTION NO: 32

Based on separation of concerns, which two are correctly implemented in the processing layer of a Web service? (Choose two.)

- A. validation of XML documents
- B. saving document contents in a database table
- C. application of the business logic to the XML document
- D. translation of incoming XML documents to their internal XML representations
- E. a new SOAP message for exceptions during validation of XML

Answer: B,C

QUESTION NO: 33

Which situation requires the client to use the Dispatch interface to access the Web service?

- A. The client and the server are on different platforms.
- B. The client has access to the portable artifacts, but not to the WSDL.
- C. The client has access to the WSDL, but not to the portable artifacts.
- D. The client will access a REST-based service.

Answer: D

QUESTION NO: 34

Which statement is true about the SOAP 1.1 actor attribute?

- A. It is ignored for HTTP.
- B. It indicates the recipient of a header block.
- C. It indicates the final recipient of the message.
- D. It indicates which recipient processes the Body element.
- E. SOAP 1.1 does not use the actor attribute.

Answer: B

QUESTION NO: 35

Given:

1. <?xml version="1.0" encoding="UTF-8"?>
2. <soapenv:Envelope>
3. <soapenv:Body xmlns:ns2="urn:examples">
4. <ns2:name>Sun Solaris</ns2:name>
5. <ns2:price >99.99</ns2:price>
6. <ns2:description>
7. Solaris for Intel
8. </ns2:description>
9. <ns2:ID>A358185</ns2:ID>
10. </soapenv:Body>
11. </soapenv:Envelope>

Which statement is correct?

- A.** The message is SOAP-encoded because the encoding style is implied.
- B.** The message is RPC-encoded because in the absence of other specifiers, this is the WS-I default.
- C.** The message is document literal with type encoding, based on the schema provided.
- D.** The message is document literal wrapped because there is no encoded type information.

Answer: C

QUESTION NO: 36

An organization has business logic implemented in EJB components. Current clients use

container-managed, role-based security to access the business logic using RMI. Management has

determined that the business logic must be made available to non-RMI clients using a Web service. Which container-managed Web service security mechanism must the development team use to allow Web service clients to use the current security model?

- A. XKMS
- B. XACML
- C. XML Digital Signature
- D. HTTP Basic Authentication
- E. annotations mapped to the JAX-WS runtime

Answer: D

QUESTION NO: 37

Which three techniques can be used to apply XML Digital Signatures to an XML document? (Choose three.)

- A. use detached signatures, where the digital signature covers sibling elements or external data
- B. use enveloping signatures, where the digital signature element encloses the data to be signed
- C. use enveloping signatures, where the digital signature is a child element of the data to be signed
- D. use enveloped signatures, where the digital signature is a child element of the data to be signed
- E. use enveloping signatures, where the digital signature element is a child element of the data to be signed

Answer: A,B,D

QUESTION NO: 38

Which three security technologies are included in WS-Security? (Choose three.)

- A. security pattern injection
- B. encryption
- C. single sign-on
- D. security tokens
- E. digital signatures

Answer: B,D,E

QUESTION NO: 39

Two companies communicate using Web services in a business transaction. Which mechanism is designed to ensure that business data CANNOT be renounced, or a transaction denied, by either one?

- A. integrity provided by public key certificates and digital signatures
- B. confidentiality provided by asymmetric or symmetric cryptography
- C. identity management provided by private keys and certificate authorities
- D. non-repudiation provided though public key cryptography by digital signing

Answer: D

QUESTION NO: 40

What are two features of a WSDL 1.1 document? (Choose two.)

- A. Service defines a collection of related endpoints.
- B. Service describes the message's payload using XML.
- C. Service assigns an Internet address to a specific binding.
- D. Porttype declares complex data types and elements used elsewhere.
- E. Porttype elements are used to group a set of abstract operations.
- F. Porttype defines a concrete protocol and data format specification.

Answer: A,E

QUESTION NO: 41

According to the WS-I Basic Profile 1.1, which two statements are true about the targetNamespace attribute for xsd:schema elements that are children of WSDL 1.1 type element? (Choose two.)

- A. Its value must be valid unless it has xsd:import, xsd:annotation, or both as its only child elements.

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