



Oracle

Exam 1z0-897

**Java Platform, Enterprise Edition 6 Web Services Developer
Certified Expert Exam**

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[Total Questions: 120]

Question No : 1 - (Topic 0)

An airline built and deployed a back-end application to manage reservations. To support interoperability with as large a base of standalone client applications as possible, the services provided by this back-end application are exposed as XML-based restful web services. Management just added a new requirement that AJAX-based web application clients be supported, too. One of the developers suggested that it is enough to extend the existing application to support both XML-based and JSON-based restful web services. Assuming the developer is correct, choose the sentence that best describes an attempt to introduce this ability as this developer suggests (Choose one):

- A.** The attempt will fail, because JAX-RS does not support both XML- and JSON- based restful services in parallel.
- B.** The attempt will be trivial to implement, since JAX-RS just needs for the application to specify that both XML- and JSON-based interaction will be supported.
- C.** The attempt can succeed, but it will require a significant amount of new code, since JAX-RS does support both XML- and JSON-based interaction - but not single resource can support both kinds of interaction simultaneously.
- D.** The attempt will fail, because there is more to the difference between XML-based and JSON-based interactions than just the data representation used.

Answer: B

Question No : 2 - (Topic 0)

A company is refactoring an existing website to use Web services clients. The application retrieves lists of parts and displays them to the users in a browser window. Previously, the data was stored as files on the web server and, in order to access the files, the user would simply click on a hyperlink. Now the data must be dynamically generated via a service that another developer has created. They want the easiest way to refactor their website to use Web services. Which three client-side technologies should they use? (Choose three.)

- A.** SOAP
- B.** REST
- C.** Javascript
- D.** XML
- E.** JSON
- F.** JAVA

Answer: B,C,E

Question No : 3 - (Topic 0)

In the code fragment below, the client will use os to upload data to the web service provider.

```
URL url = new URL(urlString);
URLConnection connection =
    (URLConnection) url.openConnection();
connection.setRequestMethod( "POST" );
// statement missing?
connection.setDoInput(true);
connection.connect();
OutputStream os = connection.getOutputStream();
```

Choose the statement that must be placed in line 5, to ensure this fragment works as intended. (Choose one)

- A. connection.setDoOutput(true);
- B. connection.setAllowUserInteraction(true);
- C. connection.setIfModifiedSince(new Date().getTime());
- D. connection.setUseCaches(false);

Answer: A

Question No : 4 - (Topic 0)

Given the resource class fragment:

```
@Path("/resource")
class Resource {
    @Path("/id") @POST
    String update(...) { ... }
    @Path("/id") @GET
    String getId() { ... }
```

And given the web.xml fragment:

```
<servlet>
  <servlet-name>Jersey</servlet-name>
  <servlet-class>
    com.sun.jersey.spi.container.servlet.ServletContainer
  </servlet-class>
  ...
</servlet>
<servlet-mapping>
  <servlet-name>Jersey</servlet-name>
  <url-pattern>/rest</url-pattern>
</servlet-mapping>
```

Choose the code fragment below that would secure access only to the Resource update() method (Choose one):

- A.** `<security-constraint>`
`<web-resource-collection>`
`<url-pattern>/rest</url-pattern>`
`<http-method>GET</http-method>`
`<http-method>POST</http-method>`
`</web-resource-collection>`
- B.** `<security-constraint>`
`<web-resource-collection>`
`<url-pattern>/rest</url-pattern>`
`<http-method>POST</http-method>`
`</web-resource-collection>`
- C.** `<security-constraint>`
`<web-resource-collection>`
`<url-pattern>/rest/id</url-pattern>`
`<http-method>POST</http-method>`
`<http-method>GET</http-method>`
`</web-resource-collection>`
- D.** `<security-constraint>`
`<web-resource-collection>`
`<url-pattern>/id</url-pattern>`
`<http-method>POST</http-method>`
`</web-resource-collection>`

Answer: B

Question No : 5 - (Topic 0)

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 would the development team use to allow Web service clients to use the current security model? (Choose one)

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

Answer: D

Question No : 6 - (Topic 0)

A developer creates a Web service for his company's inventory service. He uses servlet container to deploy the web service and wants to enable basic authentication for all web service invocations. Where does the developer configure security requirements for the above case?

- A. sun-jaxws.xml
- B. web.xml
- C. webservices.xml
- D. domain.xml

Answer: B

Question No : 7 - (Topic 0)

Choose the option that best describe the deployer's choices, when deploying an EJB that is also exposed as a RESTful web service using JAX-RS (Choose one):

- A. The EJB can only be deployed to a web container, since RESTful access to the EJB requires a web container to support the HTTP interaction needed.
- B. The EJB can be deployed to any EJB or web container that would support local references to the EJB from the JAX-RS runtime in the ejb container.
- C. The EJB can be deployed to any EJB or web container that would support local references to the EJB from the JAX-RS runtime in the web container.
- D. The EJB can be deployed to an EJB or web container that is visible to the JAX-RS runtime, even on an application server separate from the JAX-RS runtime, since EJBs support local or remote interactions via RMI.

Answer: C

Question No : 8 - (Topic 0)

Given the JAX-RS root resource class fragment:

```
@Path("/res")
@Stateless
@RolesAllowed({"client", "admin"})
class Resource {
```

Choose the statement that best describes the configuration that would be required to support the access control constraint shown:

- A. No further configuration is required - the JavaEE runtime will pick up the security constraint and configure the web container to match.
- B. The developer will have to configure the web container to require authenticated access to the URLs corresponding to this resource, so the proper information can be propagated to the EJB container.
- C. The developer will have to turn on authentication in the web container configuration file, so that all incoming requests are authenticated in order to be processed.
- D. The developer will have to configure the web container to require authenticated access to the URLs corresponding to this resource, and then map web-tier roles to ejb-tier roles, since the JAX-RS and EJB runtimes cannot use the same set of roles.

Answer: B

Question No : 9 - (Topic 0)

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? (Choose one)

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

Answer: A

Question No : 10 - (Topic 0)

A developer creates the following web service:

```
@WebService
public class Invoice {
}
```

Assuming that he packages the class in a war file without deployment descriptors, the web service is hosted by a EE container relative to module context at ? (Choose one)

- A. "/Invoice"
- B. "/InvoicePort"
- C. "/InvoiceService"
- D. "/InvoiceWebService"

Answer: C

Question No : 11 - (Topic 0)

A developer is creating a web service endpoint using a stateless session EJB for the business logic of an application. Choose two methods to select role based access control for the business logic ? (Choose two)

- A. Using method-permission element in ejb-jar.xml
- B. Using .htaccess file in the application's ear
- C. Using <security-role> element in web.xml
- D. By specifying security annotations like @RolesAllowed in the EJB class

Answer: A,D

Question No : 12 - (Topic 0)

Which of the following security technology is not covered in Metro project? (Choose one.)

- A. WS-Trust
- B. WS-SecurityPolicy
- C. WS-SecureConversation
- D. XACML

Answer: D

Question No : 13 - (Topic 0)

A Web service needs to encrypt certain SOAP headers when responding. Which statement

about this encryption is true?

- A. The Web service runtime is the appropriate place for such encryption.
- B. The Web service business logic is the appropriate place for such encryption.
- C. Either the Web service business logic or runtime is appropriate for such encryption.
- D. Neither the Web service business logic nor runtime is appropriate for such encryption.
- E. Transport level security protocol like SSL should be used to meet the requirements without code changes.

Answer: A

Question No : 14 - (Topic 0)

An automobile manufacturer publishes a Web service for use by their suppliers. The manufacturer has stringent security requirements that require suppliers to verify their identity. Data integrity and confidentiality must be maintained between the client and the server. Which two meet all of these requirements? (Choose two.)

- A. X.509 and XKMS
- B. XACML and XKMS
- C. SSL and mutual authentication
- D. XML Encryption and XML Digital Signature
- E. Private network and XML Signature

Answer: C,D

Question No : 15 - (Topic 0)

Which two statements are true about public key digital signatures applied to Web services? (Choose two)

- A. The receiver verifies that the message matches the digital signature using its own private key.
- B. The sender creates a digital signature using its own private key and sends that signature along with the original document.
- C. The sender creates a digital signature using its own public key and sends that signature along with the original document.
- D. The receiver verifies that the message matches the digital signature using the sender's public key.

Answer: B,D

Question No : 16 - (Topic 0)

Which of the following WS-Security token profiles is not supported in Metro?

- A. X509 Token Profile
- B. Kerberos Token Profile
- C. SAML Token Profile
- D. SOAP with Attachments (SWA) profile
- E. Right Expression Language (REL) Token Profile

Answer: E

Question No : 17 - (Topic 0)

Which security technologies are not included in WS-Security?

- A. encryption
- B. handshake for credential exchange and session establishment
- C. security tokens
- D. digital signatures

Answer: B

Question No : 18 - (Topic 0)

An automobile manufacturer publishes a Web service for use by their suppliers. The manufacturer has stringent security requirements that require suppliers to verify their identity. Data integrity and confidentiality must be maintained between the client and the server. Which two technologies can be used to meet the requirements? (Choose two)

- A. XACML and XKMS
- B. SSL with mutual authentication
- C. Message level security with WS-Security
- D. Private network and XML Signature

Answer: B,C

Question No : 19 - (Topic 0)

In designing the security for your enterprise application with multiple Web services, you don't want that each of the services handle user authentication by itself. Then which of the following you can use in your design?

- A. enable secure conversation for each service
- B. a centralized Policy Decision Point (PDP) via XACML
- C. a Security Token Service (STS)
- D. use transport level security with SSL

Answer: C

Question No : 20 - (Topic 0)

A developer wants to use WebServiceContext in the web service endpoint. Which of the following is the correct way to get WebServiceContext object ? (Choose one)

A. @WebService

```
public class MyService {  
    @WebServiceContext  
    WebServiceContext ctx;  
    public String echo(String str) {  
        ...  
    }  
}
```

B. @WebService

```
public class MyService {  
    WebServiceContext ctx;  
    public String echo(String str) {  
        ctx = jndi.lookup("java:com/env/WebServiceContext");  
    }  
}
```

C. @WebService

```
public class MyService {  
    @Inject  
    WebServiceContext ctx;  
    public String echo(String str) {  
        ...  
    }  
}
```

D. @WebService

```
public class MyService {
    @Resource
    WebServiceContext ctxt;
    public String echo(String str) {
    ...
    }
```

Answer: D

Question No : 21 - (Topic 0)

In which order do LogicalHandlers and SOAPHandlers configured on a Web Service endpoint execute on an incoming message ? (Choose one)

- A. SOAPHandlers in the order specified in configuration are executed first and later the LogicalHandlers specified in the order get executed
- B. LogicalHandlers in the order specified in configuration are executed first and later the SOAPHandlers specified in the order get executed
- C. All the handlers are executed in the order specified in the configuration
- D. All the handlers are executed in the reverse order specified in the configuration.

Answer: A

Question No : 22 - (Topic 0)

```
1. @WebService(name="LogInventory")
2. public class InventoryReader {
3.     @WebMethod(operationName="check")
4.     @OneWay
5.     public void checkProduct(String name) { ... }
6.
7.     @WebMethod
8.     public void addInventory(
9.         @WebParam(name="total") int quantity)
10.         throws InventoryException { ... }
11. }
```

Assume the code is free of gross flaws and syntax errors. Which two statements are true? (Choose two.)

- A. Line 8 specifies that addInventory accepts either a valid total or quantity.
- B. Line 1 indicates the portType is LogInventory.
- C. Line 3 shows the method is mapped to the WSDL operation called "checkProduct".
- D. Line 4 means that a method is not expected to return a value unless requested.
- E. Line 7 implies WSDL operation and method name are the same.

Answer: B,E

Question No : 23 - (Topic 0)

A developer is asked to determine which Web services approach is correct for a new project. A SOAP-based Web service must be created and deployed in an environment where many customers will use it. These customers will be responsible for developing their own clients using different frameworks, based on the published WSDL. Which approach is correct to use first in this situation? (Choose one)

- A. Java, because the WSDL generated later will be more accurate
- B. WSDL, because the service and customers can benefit from the strongly typed schema
- C. Java, because the service must be efficient to support many customers
- D. WSDL, because tools allow existing classes to be easily mapped without modification

Answer: B

Question No : 24 - (Topic 0)

Which of the following two EJB types can be used as web service endpoints ? (Choose two.)

- A. Stateful Session EJB
- B. Message-Driven EJB
- C. Stateless Session EJB
- D. Singleton Session EJB

Answer: C,D

Question No : 25 - (Topic 0)

Which of the following can an EJB-based web service endpoint may NOT be able to use ?

- A. Servlet sessions
- B. Java EE 6 declarative security
- C. container-managed transactions
- D. dependency injection

Answer: A

Question No : 26 - (Topic 0)

A developer is creating a web service endpoint using a stateless session EJB.

```
@Stateless(name="CounterEJB")
@WebService(name="Counter", serviceName="CounterService", portName="CounterPort")
public class Counter {
}
```

What must be the value for <ejb-link> for the above service in the webservices.xml ?
(Choose one)

- A. CounterEJB
- B. Counter
- C. CounterService
- D. CounterPort

Answer: A

Question No : 27 - (Topic 0)

An engineer is creating a WSDL 1.1 document, and is having difficulty with the wsdl:messages section.

Which two statements are true about wsdl:messages in a WSDL 1.1 document? (Choose two.)

- A. Both type and element attributes can be used on the same wsdl:part.
- B. Both type and element attributes can be used on the same wsdl:binding.
- C. The type and element attributes cannot be used on the same wsdl:part.
- D. The type and element attributes cannot be used on the same wsdl:binding.
- E. Document-style messaging allows the type attribute.
- F. Document-style messaging allows the element attribute.

Answer: C,F

Question No : 28 - (Topic 0)

Given the class:

```
@Path("/resource")
class Resource {
    @GET @POST
    public String getName() {
        return "name";
    }
}
```

Choose the option that describes what would happen if this class were deployed (Choose one):

- A. Any HTTP GET or POST request with the URL "/resource" would result in a call to getName().
- B. Any HTTP GET or POST request with URLs that begin with "/resource" would result in a call to getName().
- C. A runtime error would result, since a method cannot be responsible for both GET and POST requests.
- D. A compile error would result, since a method cannot be responsible for both GET and POST requests.

Answer: A

Question No : 29 - (Topic 0)

Which of the following is NOT true about configuring handlers on a Web Service endpoint? (Choose one)

- A. EE container automatically processes the handlers packaged in the application and configures it on the applicable endpoint
- B. Handlers can be configured using @HandlerChain annotation on endpoints configured with @WebService
- C. Handlers can be configured using @HandlerChain annotation on endpoints configured with @WebServiceProvider
- D. Handlers can be configured for endpoints in the deployment descriptor

(webservices.xml)

Answer: A

Question No : 30 - (Topic 0)

Choose the JAX-RS type that is used to produce URLs to resources, given the resource class, to incorporate into resource responses (Choose one):

- A. UriBuilder
- B. UriInfo
- C. UriMapper
- D. Producer

Answer: A

Question No : 31 - (Topic 0)

Choose the code fragment that corresponds to a resource delegating processing of a request to a subresource correctly, when processing the URL "/parent/child" (Choose one):

- A.

```
@Path("/parent")
class Parent {
    @Path("/child")
    Child getChild() { return new Child(); }
}
class Child {
    @GET String getName() { return "name"; }
}
```
- B.

```
@Path("/parent")
class Parent {
    @GET @Path("/child")
    Child getChild() { return new Child(); }
}
class Child {
    @GET String getName() { return "name"; }
}
```
- C.

```
@Path("/parent")
class Parent {
    @Path("/child")
```

```
Child getChild() { return new Child(); }  
}  
@Path("/child")  
class Child {  
    @GET String getName() { return "name"; }  
}  
D. @Path("/parent")  
class Parent {  
    @Path("/child")  
    Child getChild() { return new Child(); }  
}  
class Child {  
    String getName() { return "name"; }  
}
```

Answer: A

Question No : 32 - (Topic 0)

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 : 33 - (Topic 0)

If you are developing a Web Service starting from WSDL 1.1, how would you declare in wsdl that the Web Service requires the use of Addressing in a standard and interoperable way.

A. Declare a policy as
<wsp:Policy>
<wsam:Addressing wsp:Optional="true">
</wsp:Policy/>
</wsam:Addressing>