

Exam : CIW 1D0-532

**Title : CIW v5 E-Commerce
Designer**

Version : Demo

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1. To develop a JAX-RPC Web Service application, a vendor-supplied development tool is used to create which of the following?

- A. WSDL document
- B. Skeleton class
- C. XML Schema
- D. SOAP messages

Answer: AB

2. A SOAP file cannot include which of the following?

- A. DTD
- B. Envelope
- C. Body
- D. Namespace
- E. Processing instructions

Answer: AE

3. All of the following are faultcode values defined in the SOAP 1.1 specification EXCEPT:

- A. VersionMismatch
- B. MustUnderstand
- C. Client
- D. Server
- E. Network

Answer: E

4. Valid reasons to use a Schema rather than a DTD when defining an XML document include all of the following EXCEPT which?

- A. Schemas are more widely used.
- B. Schemas are described with XML syntax.
- C. Schemas are used to validate documents on content as well as data types.
- D. Schemas are capable of using namespaces.

Answer: A

5. An application is designed to allow a customer to order concert tickets through a Web Service. If all other factors are identical, which scenario is LEAST likely to be appropriate for this application?

- A. Asynchronous Messaging
- B. Request/Response
- C. Remote Procedure Call
- D. Conversational Message Exchange

Answer: A

6. Which Web Services specification is most similar to a Java interface?

- A. UDDI
- B. SOAP
- C. WSDL
- D. ebXML

Answer: C

7. The APIs used with JAXM applications are defined in which packages?

- A. javax.xml.messaging
- B. javax.xml.soap
- C. javax.xml.rpc
- D. javax.xml.registry

Answer: AB

8. An XML document that is valid:

- A. complies with XML syntax rules and the constraints described in a DTD or Schema.
- B. complies with XML syntax rules but not the constraints described in a DTD or Schema.
- C. does not necessarily comply with XML syntax rules but only the constraints described in a DTD or Schema.
- D. does not necessarily comply with XML syntax rules or the constraints described in a DTD or Schema, but can be parsed with an HTML browser.

Answer: A

9. Which of the following is NOT a major element used to define a service in WSDL?

- A. Types
- B. Message
- C. Port type
- D. Service
- E. Namespace

Answer: E

10. Which two scenarios will always result in the init method of a servlet being invoked?

- A. Every time a new client accesses the servlet
- B. When the server automatically reloads the servlet
- C. When an HTTP INIT type request is made by a client
- D. When the servlet is put into service after loading and instantiation

Answer: BD

11. If four classes were instantiated in the following order, implementing the associated event listener, in what order would they be notified if the application were shut down?

CustomConnectionManager implements HttpSessionListener

CustomerManager implements ServletContextListener

OrderManager implements HttpSessionListener

ShoppingCartManager implements HttpSessionListener

- A. ShoppingCartManager, OrderManager, CustomerConnectionManager, CustomerManager
- B. ShoppingCartManager, CustomerManager, OrderManager, CustomConnectionManager
- C. CustomerManager, ShoppingCartManager, OrderManager, CustomConnectionManager
- D. CustomerManager, CustomConnectionManager, OrderManager, ShoppingCartManager

Answer: A

12. What is the best scope in which to store an object containing display data that is to be sent from a servlet acting as a controller to a JSP page with the session disabled?

- A. page
- B. request
- C. session
- D. application/servletContext

Answer: B

13. Which of the following is considered the best way to design a flexible API that does not require a servlet per activity?

- A. Embed the activity name in a hidden field. Let the servlet read the field to determine what must occur.
- B. Create a query string containing the activity name as a parameter. Let the servlet read the parameter to determine what must occur.
- C. Use a servlet mapping to make requests with the same suffix. Change the prefix to the action and let the servlet read the whole URL to determine what is required.

Answer: C

14. Which interface should an object implement in order to be notified that it is about to be added to or removed from the session?

- A. HttpSessionBindingListener
- B. HttpSessionActivationListener
- C. HttpSessionAttributeListener
- D. EventListener

Answer: A

15. A client has accessed a servlet via a form that uses an HTTP POST request. Which two methods could be used by the servlet to obtain information input within the form?

- A. Using the servlet object's getServletInfo method
- B. Using the request object's getAttribute method

- C. Using the request object's getParameter method
- D. Using the ServletConfig's getInitParameter method
- E. Using the request object's getParameterValues method
- F. Using the request object's getAttributeValues method

Answer: CE

16. A client browser has cookies turned off and is interacting with a servlet that is using HTTP sessions for client state management. According to J2EE Patterns best practices, which technique or technology should be used by the servlet programmer in order to maintain this client's state?

- A. Servlet filters
- B. Servlet events
- C. URL encoding
- D. Use of persistent sessions
- E. Creation of a new session at the beginning of the service method
- F. Hidden fields
- G. Client-side certificates

Answer: C

17. A servlet has been configured in a deployment descriptor file with servlet-specific initialization parameters. Through which interface can a servlet access these initialization parameters?

- A. ServletConfig
- B. ServletContext
- C. HttpServletRequest
- D. HttpServletResponse

Answer: A

18. Given the following HTML form on a Web page:

```
<FORM ACTION="http://localhost:7001/phoneBook" METHOD="GET">
<H1>Phone Book</H1>
<CENTER>
<p>
Last Name: <INPUT TYPE="TEXT" NAME="last" SIZE="25" VALUE="Smith"><p>
First Name: <INPUT TYPE="TEXT" NAME="first" SIZE="25" VALUE="John"><p>
Phone Number: <INPUT TYPE="TEXT" NAME="phone" SIZE="17" VALUE="4567890"><p>
<p><INPUT TYPE="SUBMIT">
</CENTER>
</FORM>
```

If the user who is presented with this form simply clicks the Submit button without updating any fields, what

URL (and associated query string) will the browser attempt to access?

- A. `http://localhost:7001/phoneBook%last=Smith?first=John?phone=4567890`
- B. `http://localhost:7001/phoneBook?text=Smith&text=John&number=4567890`
- C. `http://localhost:7001/phoneBook?Last Name=Smith&First Name=John&Phone Number=4567890`
- D. `http://localhost:7001/phoneBook?last=Smith&first=John&phone=4567890`
- E. `http://localhost:7001/phoneBook` (with no associated query string)

Answer: D

19. A running Filter must call what method in order to ensure that the next filter in the filter chain is called?

- A. `Servlet.doFilter(Request,Response);`
- B. `FilterChain.doFilter(Request,Response);`
- C. `Filter.doFilter(Request,Response);`
- D. `Servlet.doChain(Request,Response);`
- E. `Filter.doChain(Request,Response);`
- F. `FilterChain.doChain(Request,Response);`

Answer: B

20. Which three of the following may be contained in a WAR file?

- A. Enterprise JavaBeans
- B. Servlets
- C. JavaServer Pages
- D. Applets
- E. Client-side Java applications

Answer: BCD

21. What method in the ServletContext could be used to get an attribute called `times_Accessed` from the servlet context?

- A. `getInitParameter(times_Accessed);`
- B. `getInitParameter("times_Accessed");`
- C. `getParameter(times_Accessed);`
- D. `getParameter("times_Accessed");`
- E. `getAttribute(times_Accessed);`
- F. `getAttribute("times_Accessed");`

Answer: F

22. Which method would be used to call a registered servlet with the following attributes?

Site = `www.jcert.org`

Web application name = `testApp`

Servlet URI = `TestServlet`

- A. `getServletConfig().getServletContext().getRequestDispatcher("http://www.jcert.org/testApp/TestServlet").forward(req,res);`
- B. `getServletConfig().getServletContext().getRequestDispatcher("/testApp/TestServlet").forward(req,res);`
- C. `getServletConfig().getServletContext().getRequestDispatcher("/TestServlet").forward(req,res);`
- D. `getServletConfig().getServletContext().getRequestDispatcher("TestServlet").forward(req,res);`

Answer: C

23. A client is to be sent to a servlet in a separate servletContext. Which of the following is the best way to accomplish this?

- A. `response.sendRedirect("http://www.testapp.com/OtherApp/servlets/OtherServlet");`
- B. `response.sendRedirect("/OtherApp/servlets/OtherServlet");`
- C. `getServletConfig().getServletContext().getRequestDispatcher("/Other/servlets/OtherServlet").forward(req,res);`
- D. `getServletConfig().getServletContext().getRequestDispatcher("http://www.testapp.com/OtherApp/servlets/OtherServlet").forward(req,res);`

Answer: A

24. Which two of the following should be avoided in order for a servlet that does not implement the SingleThreadModel to be thread safe?

- A. Class variables
- B. Instance variables
- C. Local variables
- D. Class methods
- E. Instance methods

Answer: AB

25. For J2EE 1.3, which of the following session methods would allow the developer to set the timeout period so that a session will be automatically invalidated if it has not been used during the specified interval?

- A. `session.setTimeoutInterval()`
- B. `session.setInactiveTimeoutInterval()`
- C. `session.setMaxTimeoutInterval()`
- D. `session.setMaxInactiveInterval()`

Answer: D

26. Which would be the best exception to catch to ensure that all objects placed into a session in a clustered environment using Database-based session persistence properly implement Serializable where supported?

- A. NamingException
- B. IllegalArgumentException
- C. Exception
- D. java.rmi.RMIException

Answer: B

27. Consider the following HTML:

```
<HTML lang="en">
<HEAD>
<TITLE>My Title</TITLE>
</HEAD>
<BODY>
<P lang="es">
Alpha
</P>
Beta
<P lang="de">Gamma</P>
<P lang="it">
<H1> Delta </H1>
</P>
</BODY>
</HTML>
```

The HTML above displays four words: Alpha, Beta, Gamma and Delta. Which of these words would be interpreted by a Web browser as being written in English?

- A. Alpha
- B. Beta
- C. Gamma
- D. Delta

Answer: B

28. Which default document information can be set through a META element?

- A. Scripting language
- B. Style sheet language
- C. Document character encoding
- D. Text direction
- E. Language

Answer: ABC

29. A JSP contains the following include directive:

```
<%@ include file="copyright.html" %>
```

What occurs when a JSP is called that includes this directive?

- A. During processing this directive will force execution control to be passed to the included file for output to be added to the output stream before control is returned to the original JSP.
- B. At translation time the content of the included file is statically added directly to the including JSP at the top of the page.
- C. At translation time the content of the included file is statically added directly to the including JSP at the exact location of the include directive.
- D. During processing this directive will allow a JavaBean to be declared for use throughout the JSP.

Answer: C

30. At the top of a JSP the following directive appears:

```
<%@ page isErrorPage="true"%>
```

What does this indicate about the JSP?

- A. That an exception will be thrown within the JSP
- B. That it will have access to an implicit object called exception
- C. That any exceptions thrown within the JSP should be ignored
- D. That if any errors or exceptions occur within the current JSP, they will be handled by another JSP

Answer: B

31. Which CSS tag allows a user to override an author style sheet declaration?

- A. !important
- B. !override
- C. important
- D. override

Answer: A

32. What is the result of using a getProperty action tag such as `<jsp:getProperty name="employee" property="lastname" />` in a JSP?

- A. The value of the lastname variable in the employee bean is placed in the output stream.
- B. A request parameter named employee is retrieved and placed in a scripting variable called lastname.
- C. The value of a parameter named lastname in an HTML form named employee is retrieved from the request object.
- D. The value of the lastname variable in the employee bean is associated with a scripting variable in the JSP to be used for future processing.

Answer: A

33. A developer wants to make use of a pre-existing tag library located at:

`http://www.mycorp/super`

The tag that will be used in the JSP will appear as:

`<super:doCount>`

What directive must appear in the JSP in order to use the tag library?

- A. `<%@ taglib uri="super" prefix="doCount" />`
- B. `<%@ taglib uri="http://www.mycorp/super" prefix="super" />`
- C. `<%@ taglib uri="super" prefix=" http://www.mycorp/super" />`
- D. `<%@ taglib uri="http://www.mycorp/super" prefix="doCount" />`

Answer: B

34. Which three accurately describe XHTML?

- A. It is designed to embed XML messages in HTML.
- B. It is based on HTML.
- C. It must be used in Web services.
- D. Its documents are XML conforming.
- E. Its documents must be well-formed.

Answer: BDE

35. Given a single client accessing a JSP that contains the following fragment, what will be resulting output in the browser?

```
<%! final double interestRate = 3.4; %>
```

```
Your current balance is: <% int balance = 1000; %> <br>
```

```
The interest rate is: <%= interestRate %>
```

A. Your current balance is: 1000

The interest rate is: 3.4

B. Your current balance is:

The interest rate is: 3.4

C. Your current balance is:

The interest rate is: interestRate

D. Your current balance is: 1000

The interest rate is: interestRate

Answer: B

36. Why is it important to use an ALT attribute within an image tag in an HTML document?

- A. It allows for an alternate image to be displayed if the primary image cannot be found.
- B. It allows for descriptive text to be displayed if the requesting device does not display inline images.
- C. It allows for an alternate image to be displayed if the primary image is not displayable in the requesting device.

D. It allows for animated images to be displayed by making use of the primary image and the image specified in the ALT attribute.

Answer: B

37. What distinguishes the behavior of a radio control from a check box on an HTML form?

- A. A radio control supports an exclusive choice, whereas a check box allows multiple choices.
- B. A radio control allows multiple choices, whereas a check box supports an exclusive choice.
- C. A radio control allows generic push buttons, whereas a check box submits a form.
- D. A radio control submits a form, whereas a check box allows generic push buttons.

Answer: A

38. A JSP contains a for loop that is an integral part of populating and outputting an HTML table with five rows. Which is a valid JSP scripting element that could be used for the looping construct?

- A. `<@page="loop" i="5" />`
- B. `<% for(int i=0; i<5; i++) %>`
- C. `<%= for(int i=0; i<5; i++) %>`
- D. `<%! for(int i=0; i<5; i++) %>`
- E. `<jsp:useBean id="loop" class="com.mybean.ForLoop" />`

Answer: B

39. Using the following JavaScript function, what would be the best INPUT line to invoke this method on a form field?

```
function checkValue(enteredValue) {  
    var retVal = false  
    if (enteredValue.value < 0)  
        alert("Must be a whole number")  
    else if (enteredValue.value > 1000)  
        alert("Value must be >0 and less than 1000")  
    else  
        retVal = true  
    return retVal  
}
```

- A. `<INPUT TYPE="text" NAME="quantity" onChange="checkValue(this.value)">`
- B. `<INPUT TYPE="text" NAME="quantity" onChange="checkValue(current.value)">`
- C. `<INPUT TYPE="text" NAME="quantity" onChange="checkValue(quantity.value)">`
- D. `<INPUT TYPE="text" NAME="quantity" onChange="checkValue(form.value)">`

Answer: A

40. A JSP developer needs to buffer 20kb of response data from a page before sending it to the output

stream back to the browser. What is the correct JSP syntax to enable this buffering to take place?

- A. `<% page.setBuffer(20000); %>`
- B. `<%! buffer.setSize(20000); %>`
- C. `<%@autoFlush size="20kb" %>`
- D. `<%@page buffer="20kb" %>`

Answer: D

41. Each of the following represents a valid and well-formed WML code segment EXCEPT:

- A. `<do type="help" label="Get Help">`
`<go href="#help"/>`
`</do>`
- B. `<do type="prev" label="Last Page">`
`<prev/>`
`</do>`
- C. `<do type="accept" label="View Inventory">`
`<spawn href="/inventory" onexit="/checkout">`
`</do>`
- D. `<do type="options" label="Options"/>`

Answer: C

42. Consider the following traditional JSP tag:

```
<%@ page import="java.sql.*" %>
```

Which of the following represent the complete and correct XML-based JSP tags to accomplish the same task as the traditional JSP tag above?

- A. `<jsp:directive.page import="java.sql.*"/>`
- B. `<jsp:directive.page import="java.sql.*">`
- C. `<jsp:directive.page import="java.sql.*"></jsp>`
- D. `<jsp:directive.page import="java.sql.*"></jsp:directive.page>`

Answer: AD

43. In a JSP, useBean action tags do which three of the following?

- A. Instantiate a JavaBean
- B. Find an existing JavaBean in a given scope
- C. Cast an existing bean down to a specified type
- D. Invoke a non-accessor method on a JavaBean

Answer: ABC

44. A mobile WML-enabled device is most likely to support which of the following image file types?

- A. jpeg

- B. wbmp
- C. gif
- D. tiff
- E. pcx

Answer: B

45. Consider the following XML document:

```
<book>
  <book_title>Cool Book</book_title>
  <author>Joe</author>
  <publisher>King of books</publisher>
  <pub_year>2002</pub_year>
</book>
```

Which of the following XSLT templates matches the root node of the XML document above?

- A. <xsl:template match="root"/>
- B. <xsl:template match="*">
- C. <xsl:template match="/">
- D. <xsl:template select="book"/>

Answer: C

46. When a context throws a NamingException, which of the following methods can be used to determine which portion of the JNDI name is valid?

- A. NamingException.resolvedObj()
- B. NamingException.remainingName()
- C. NamingException.resolvedName()
- D. NamingException.getRootCause()

Answer: C

47. Refer to the exhibit to answer the question.

Consider the Products relation defined in the exhibit. What is the result of attempting to execute the following Java code segment assuming con is a valid reference to an open Connection object?

1. PreparedStatement ps = con.prepareStatement(
2. "SELECT * FROM Products WHERE " +
3. "Cost < ?");
- 4.
5. ps.setDouble(0, 10f);
- 6.
7. ResultSet rs = ps.executeUpdate();

8. rs.next();
9. System.out.print(rs.getString(1));
10. System.out.println(rs.getString(2));

Products Relation			
ProductID	Description	Cost	Price
1001	Flyback Transformer	8.00	14.99
1002	17" CRT	42.00	85.99
1003	10" Color LCD 640x480	12.50	24.99
1004	Grounding Strap	0.15	3.99
1005	Wiring Loom For 1003 Color LCD	1.10	11.99

- A. The code segment displays "1001 Flyback Transformer".
- B. The code segment displays "1004 Grounding Strap".
- C. The code segment displays "Flyback Transformer 8.0".
- D. The code segment displays "Grounding Strap 0.15".
- E. No output is displayed due to a runtime error.

Answer: E

48. From the perspective of an EJB client, what types of EJBs will always be unique for every create() call?

- A. Entity
- B. Stateless Session
- C. Stateful Session
- D. Message-Driven

Answer: AC

49. EJB clients must supply which two of the following pieces of information in order to use JNDI services?

- A. The IP address of a Web container
- B. The DataSource name for a JDBC database
- C. A provider URL detailing the location of the name tree
- D. The class name of the initial context factory

Answer: CD

50. Assuming variable env is a reference to a hashtable containing the parameters necessary to obtain the JNDI initial context, which of the following obtains a JDBC data source named MyDataSource?

- A. DataSource ds;
try {
ctx = new InitialContext(env);
ds = (DataSource) ctx.lookup("MyDataSource");
} catch (NamingException ne) { }
- B. DataSource ds;

```
try {  
    ctx = new InitialContext(env);  
    ds = (DataSource) ctx.getConnection("MyDataSource");  
} catch (NamingException ne) { }  
C. DataSource ds;  
try {  
    ctx = new InitialContext(env);  
    ds = (DataSource) ctx.getNameInNamespace("MyDataSource");  
} catch (NamingException ne) { }  
D. DataSource ds;  
try {  
    ctx = new InitialContext(env);  
    ds = (DataSource) ctx.getURLOrDefaultInitCtx("MyDataSource");  
} catch (NamingException ne) { }
```

Answer: A

51. Consider an EJB named Employee and its home interface named EmployeeHome. The findByDepartment method of the EmployeeHome interface is most likely to have a return value of which of the following types?

- A. Employee
- B. EmployeeHome
- C. Employee
- D. Collection

Answer: D

52. Where would an EJB reference be found if it were placed in the JNDI location recommended in J2EE 1.3?

- A. java:comp/env/ejb
- B. java:comp/ejb
- C. java:ejb
- D. java:env/ejb

Answer: A

53. Which of the following is NOT a message transfer protocol?

- A. POP
- B. SMTP
- C. IMAP
- D. MIME

Answer: D

54. Which two of the following are NOT parts of the J2C Version 1.0 Common Client Interface?

- A. ConnectionFactory
- B. ConnectionException
- C. ResultSetMetaData
- D. TransactionFactory
- E. ResultSet

Answer: BD

55. In the JMS API for the publish-subscribe domain, how does a durable subscriber differ from a non-durable subscriber?

- A. Messages in topics that have durable subscribers remain in the topic until they expire or the subscriber connection to the JMS provider is closed.
- B. If a durable subscriber becomes disconnected without unsubscribing and later reconnects, the subscriber receives messages that arrived while the subscriber was not active.
- C. If a topic has a durable subscriber, the JMS provider logs all messages in a persistent media so that an application can inspect the log and extract messages at a later time.
- D. The application server delivers each message in a transactional context so that if a durable subscriber then rolls back the transaction, the state of the message reverts to that prior to delivery.

Answer: B

56. Which two of the following scenarios are better modeled in the JMS point-to-point domain than in the JMS publish-subscribe domain?

- A. A store sends a shipping order to a warehouse to request delivery of a purchased item to a customer.
- B. Headquarters of a chain of stores sends messages that contain price update information to several stores that consume messages independently.
- C. Many sports teams post scores so that fans can see the latest results for their favorite teams.
- D. A client application sends insurance policy data to an application that calculates insurance premiums, and waits for the response.

Answer: AD

57. Refer to the exhibit to answer the question.

Consider the Employees relation defined in the exhibit and the Java code segment defined below:

```
Statement s = con.createStatement();  
ResultSet rs = s.executeQuery("SELECT * FROM Employees " +  
"WHERE EmployeeID >= 10002 AND " +  
"EmployeeID <= 10004");
```

Which code segments display the entire content of the result set assuming that columns EmployeeID and

Extension are of SQL type SMALLINT and column Name is of SQL type VARCHAR?

EmployeeID	Name	Extension
10001	James Roos	354
10002	Carlos Ventura	365
10003	Marsha Roberson	324
10004	D. Erik Algood	203
10005	Denise Lane	434

A. do

```
{  
System.out.println(rs.getShort("EmployeeID"));  
System.out.println(rs.getString("Name"));  
System.out.println(rs.getShort("Extension"));  
} while (rs.next())
```

B. do

```
{  
System.out.println(rs.getString("EmployeeID"));  
System.out.println(rs.getString("Name"));  
System.out.println(rs.getString("Extension"));  
} while (rs.next())
```

C. while (rs.next())

```
{  
System.out.println(rs.getString(1));  
System.out.println(rs.getString(2));  
System.out.println(rs.getString(3));  
}
```

D. while (rs.next())

```
{  
System.out.println(rs.getString(0));  
System.out.println(rs.getString(1));  
System.out.println(rs.getString(2));  
}
```

E. while (rs.next())

```
{  
System.out.println(rs.getString("EmployeeID"));  
System.out.println(rs.getString("Name"));  
}
```

```
System.out.println(rs.getString("Extension"));  
}
```

Answer: CE

58. When the JMS API is used, which two subtypes of `javax.jms.Message` are most appropriate for sending a message to a consumer that is not a Java client?

- A. `BytesMessage`
- B. `MapMessage`
- C. `ObjectMessage`
- D. `StreamMessage`
- E. `TextMessage`

Answer: AE

59. Given a JDBC data source named `myDataSource`, which of the following establishes a JDBC connection?

- A. `Connection con = new Connection(myDataSource);`
- B. `Connection con = myDataSource.getConnection();`
- C. `Connection con = ConnectionManager.getConnection(myDataSource);`
- D. `Connection con = myDataSource.open();`

Answer: B

60. What is best method for obtaining a home interface for a bean named `Employee`?

- A.

```
Context initCtx = new InitialContext(System.getProperties());  
Object o = initCtx.lookup("EmployeeHome");  
EmployeeHome empHome = (EmployeeHome)  
javax.rmi.PortableRemoteObject.narrow(o,  
EmployeeHome.class);
```
- B.

```
Context initCtx = InitialContext.getDefaultContext();  
Object o = initCtx.lookup("EmployeeHome");  
EmployeeHome empHome = (EmployeeHome)  
javax.rmi.PortableRemoteObject.narrow(o,  
EmployeeHome.class);
```
- C.

```
Context initCtx = new InitialContext(System.getProperties());  
EmployeeHome empHome = (EmployeeHome)  
initCtx.lookup("EmployeeHome");
```
- D.

```
Context initCtx = InitialContext.getDefaultContext();  
EmployeeHome empHome = (EmployeeHome)  
initCtx.lookup("EmployeeHome");
```

Answer: A

61. Which of the following is NOT a recommended use for servlet filters?

- A. Authentication filters
- B. Encryption filters
- C. Applet communication filters
- D. XSL/T filters
- E. Image conversion filters

Answer: C

62. What interface must an object implement in order to ensure that it is notified if the object bound in a session is to be moved from one VM to another in a clustered environment?

- A. HttpSessionActivationListener
- B. HttpSessionBindingListener
- C. HttpSessionContext
- D. HttpSessionAttributeListener

Answer: A

63. Which of the following is the best way to ensure that a servlet will only process a single request at a time?

- A. synchronize doPost()
- B. synchronize doGet()
- C. implement as Singleton
- D. implement SingleThreadModel

Answer: D

64. Which type of HTTP request causes input parameters to be appended to a URL in the form of a query string?

- A. GET
- B. INIT
- C. POST
- D. HEAD

Answer: A

65. Which three of the following would be individually registered in a WAR file deployment descriptor?

- A. HttpSession event listeners
- B. Applets
- C. Servlet filters
- D. Servlets
- E. HTML pages

F. JavaBeans

Answer: ACD

66. If a server has URL rewriting enabled, what is the result of using the encodeURL method of the HttpServletResponse interface if a client browser has cookies disabled?

- A. Encryption of sensitive client data in the URL
- B. Increased performance due to browser specific information being encoded in the URL
- C. Redirection of all subsequent requests to a unique domain specified as a URL parameter
- D. Addition of a client's session ID to the URL in a query string

Answer: D

67. Which of the following event listeners must be notified by the container in the event of a session timeout?

- A. HttpSessionListener
- B. HttpSessionAttributesListener
- C. ServletContextListener
- D. ServletContextAttributeListener

Answer: A

68. Given the following HTML form on a Web page:

```
<FORM ACTION="http://localhost:7001/phoneBook" METHOD="GET">
<H1>Phone Book</H1>
<CENTER>
<p>
Last Name: <INPUT TYPE="TEXT" NAME="last" SIZE="25" VALUE="Smith"><p>
First Name: <INPUT TYPE="TEXT" NAME="first" SIZE="25" VALUE="John"><p>
Phone Number: <INPUT TYPE="TEXT" NAME="phone" SIZE="17" VALUE="4567890"><p>
<p><INPUT TYPE="SUBMIT">
</CENTER>
</FORM>
```

Assume a servlet receives the request submitted through this form. Which two methods would extract the phone number information from the request object?

- A. response.getAttribute("Phone Number");
- B. request.getParameter("Phone Number");
- C. response.getAttribute("TEXT");
- D. request.getParameter("phone");
- E. request.getAttribute("phone");
- F. request.getParameterValues("phone")[0];

G. request.getParameterValues("Phone Number")[0];

Answer: DF

69. In the J2EE 1.3, what two techniques should be used to release an attribute called Cart stored in an HttpSession?

- A. session.removeAttribute("Cart");
- B. session.removeValue("Cart");
- C. session.setAttribute("Cart", null);
- D. session.invalidate("Cart");

Answer: AC

70. In the J2EE, the controller does which three of the following?

- A. Defines application behavior
- B. Chooses the correct display agent
- C. Formats and delivers results to client
- D. Performs all necessary business calculations
- E. Records application state

Answer: ABE

71. In J2EE 1.3, which two of the following would result in a java.lang.IllegalStateException if called on an already invalidated session?

- A. setMaxInactiveInterval()
- B. removeAttribute()
- C. invalidate()
- D. getServletContext()

Answer: BC

72. Which two statements best describe the behavior of the Web container in a distributed environment?

- A. It must call the readObject and writeObject attributes of a serialized object if the session is passivated.
- B. It must call the HttpSessionActivationListener in the case of session migration.
- C. It must preserve session state if the session is passivated.
- D. It must store the state of static variables if the session is passivated.

Answer: BC

73. In J2EE v1.3, which two of the following would be legal parameters of the include() method of the RequestDispatcher object?

- A. HttpServletRequestObject
- B. HttpServletResponseObject
- C. ServletRequestWrapper
- D. ServletResponseWrapper

E. ServletContext

Answer: CD

74. Which method would be used to call a registered servlet using the NamedDispatcher interface, given the following:

Site = www.jcert.org

Web application name = testApp

Servlet URI = TestServlet

A. `getServletConfig().getServletContext().getNamedDispatcher("http://www.jcert.org/testApp/TestServlet").forward(req,res);`

B. `getServletConfig().getServletContext().getNamedDispatcher("/testApp/TestServlet").forward(req,res);`

C. `getServletConfig().getServletContext().getNamedDispatcher("/TestServlet").forward(req,res);`

D. `getServletConfig().getServletContext().getNamedDispatcher("TestServlet").forward(req,res);`

Answer: D

75. A Web application contains a single servlet that handles all types of requests. Within the Web application is an HTML page that contains a form that uses a POST type request. There are also hyperlinks with query strings associated with them. Requests arriving at the servlet via the form must be processed differently than requests made through the hyperlinks with query strings. Which two methods of the servlet should be overridden by the servlet programmer?

A. `doGet`

B. `doPut`

C. `doPost`

D. `service`

E. `doForm`

F. `doQuery`

Answer: AC

76. A Web application has been deployed with three servlets in it. Through which interface can these servlets access a DataSource's JNDI name that has been configured as an application-wide initialization parameter?

A. `HttpServlet`

B. `ServletConfig`

C. `ServletContext`

D. `HttpServletRequest`

E. `HttpServletResponse`

Answer: C

77. Which two of the following scopes could be used to share client-specific information between a servlet

and a JSP page?

- A. ServletContext/Application
- B. HttpSession
- C. HttpServletRequest
- D. PageContext

Answer: BC

78. Which of the following JNDI methods is used by a client to obtain a reference to an EJB home interface?

- A. InitialContext.bind()
- B. InitialContext.lookup()
- C. InitialContext.rebind()
- D. InitialContext.getnameInSpace()
- E. InitialContext.listBindings()

Answer: B

79. Consider the following Java code:

```
DataSource ds;  
try {  
    ctx = new InitialContext(env);  
    ds = (DataSource) ctx.lookup("EmployeeDatabase");  
}  
catch (NamingException ne)  
{  
    System.out.println("NamingException thrown!");  
}  
  
    Connection con = ds.getConnection();
```

Which of the following actions are performed by the code above?

- A. The code establishes a connection with a database.
- B. The code utilizes a JDBC URL to locate a database.
- C. The code releases a connection to a database.
- D. The code utilizes JNDI.

Answer: AD

80. Consider the following Java code (assume all necessary import statements are defined):

```
DataSource ds;  
try {  
    ctx = new InitialContext();
```

```
ds = (DataSource) ctx.lookup("EmployeeDatabase");
Connection con = ds.getConnection("EmployeeDatabase", "userid", "password");
}
catch (Exception ne)
{
    System.out.println("There was an Exception!");
}
```

Which of the following actions will result when the above code is executed?

- A. The code will not compile.
- B. The code will utilize a JDBC URL to locate a database.
- C. A connection pool called EmployeeDatabase will be initialized.
- D. A call will be made to JNDI.

Answer: D

81. Which of the following methods of the SQLException class returns an error code conforming to the XOPEN convention?

- A. SQLException.getErrorCode();
- B. SQLException.getSQLState();
- C. SQLException.getNextException();
- D. SQLException.getMessage();

Answer: B

82. Given:

...

```
BodyPart msgPart = new MimeBodyPart();
msgPart.setContent(" This is embed text with <img src=\"cid:embeddedImage\"> as the embedded
image");
MimeMultipart multipart = new MimeMultipart("related");
multipart.addBodyPart(msgPart);
msgPart = new MimeBodyPart();
DataSource fds = new FileDataSource(file);
msgPart.setDataHandler( new DataHandler(fds));
```

Which of the following would successfully embed the image into the body in the next line?

- A. msgPart.setHeader("MimeMultiPart","related");
- B. msgPart.setHeader("Content-ID","embeddedImage");
- C. msgPart.setHeader("DataSource",fds);
- D. msgPart.setHeader("MultipartDataSource",msgPart);

Answer: B

83. Which of the following are features of EJB home interfaces?

- A. They may provide a set of findByXXX methods that are used to obtain EJB references.
- B. They may provide a set of create methods that are used to create new EJBs.
- C. They provide a method to cast a generic reference of type Object to a specific EJB type reference.
- D. They are used exclusively by the container and are not available to client applications.

Answer: AB

84. Consider an EJB named Employee and its home interface named EmployeeHome. The findByEmployeeNumber method of the EmployeeHome interface is most likely to have a return value of which of the following types?

- A. Employee
- B. EmployeeHome
- C. Employee
- D. Collection

Answer: A

85. Which of the following methods of the ResultSet class can be used to extract data of SQL type INTEGER without risk of lost precision?

- A. getShort()
- B. getLong()
- C. getDouble()
- D. getBlob()
- E. getString()

Answer: BE

86. Which of the following methods should be used by a client to obtain a JNDI initial context and create the most portable code?

- A. InitialContext.InitialContext(Boolean);
- B. InitialContext.InitialContext(HashTable);
- C. InitialContext.getDefaultInitCtx();
- D. InitialContext.getEnvironment();

Answer: C

87. In which two of the following scenarios is the JMS publish-subscribe domain more appropriate than the JMS point-to-point domain?

- A. Companies post highlights of their quarterly financial statement returns for stockholders.
- B. An online forum lets members read and add messages to a number of discussion threads.
- C. A police officer inputs a vehicle license number and receives the owner's name and driving record.

D. The animal control department of city hall hosts a Web site through which members of the public can submit applications for dog licenses.

Answer: AB

88. Refer to the exhibit to answer the question.

Consider the Products relation defined in the exhibit. Which of the following Java code segments creates a prepared statement that could be used to produce a result set containing all of the products that cost more than \$2.00 and are priced less than \$20 assuming con references a valid and open Connection object?

ProductID	Description	Cost	Price
1001	Flyback Transformer	8.00	14.99
1002	17" CRT	42.00	85.99
1003	10" Color LCD 640x480	12.50	24.99
1004	Grounding Strap	0.15	3.99
1005	Wiring Loom For 1003 Color LCD	1.10	11.99

- A. `PreparedStatement ps = con.createStatement("SELECT * FROM Products WHERE " + "Cost > ? AND Price < ?");`
- B. `PreparedStatement ps = new PreparedStatement("SELECT * FROM Products WHERE " + "Cost > ? AND Price < ?");`
- C. `PreparedStatement ps = con.prepareStatement("SELECT * FROM Products WHERE " + "Cost > ? AND Price < ?");`
- D. `PreparedStatement ps = con.preparedStatement("SELECT * FROM Products WHERE " + "Cost > ? AND Price < ?");`
- E. `PreparedStatement ps = con.prepareCall("SELECT * FROM Products WHERE " + "Cost > ? AND Price < ?");`

Answer: C

89. An application that is a JMS consumer may process JMS messages in three of the four following ways. Which method is NOT supported by the JMS 1.1 and the J2EE 1.3 specifications?

- A. Using a Message-Driven Bean
- B. Creating a session by calling `createSession(boolean, int)`
- C. Providing a class that implements `javax.jms.MessageListener`
- D. Calling `MessageConsumer.receive(long)`

Answer: B

90. When JMS API is used to send messages that are whole or partial XML documents, which of the following is the most appropriate subtype of `javax.jms.Message` to use?

- A. `javax.jms.BytesMessage`
- B. `javax.jms.MapMessage`
- C. `javax.jms.ObjectMessage`
- D. `javax.jms.StreamMessage`
- E. `javax.jms.TextMessage`

Answer: E

91. According to the J2EE Blueprints, which type of EJB is most appropriate for managing persistent information through JDBC?

- A. Entity
- B. Stateless Session
- C. Stateful Session
- D. Message-Driven

Answer: A

92. Which of the following is primarily responsible for providing outbound connectivity information to an EIS instance?

- A. `ActivationSpec` JavaBean
- B. `EJB MessageBean`
- C. `ResourceAdapter` JavaBean
- D. `ManagedConnectionFactory` JavaBean

Answer: D

93. What value should be assigned to the `dir` parameter if a block of text within an HTML document is to be displayed from right to left?

- A. RIGHT
- B. RTL
- C. LEFT
- D. RIGHTTOLEFT

Answer: B

94. Which attributes are used to control the size of a cell in HTML?

- A. `rowspan`, `colspan`
- B. `rowsize`, `cellsize`
- C. `tr`, `td`
- D. `th`, `tf`

Answer: A

95. The following excerpt from a JSP is meant to display the following output:

The price without tax is: 100.0

The tax rate is: 0.15

The tax on your purchase is: 15.0

The total cost is: 115.0

Using only the line numbers outlined in the JSP excerpt, identify the three lines that need to be changed to allow for proper translation\compilation\display of the JSP. (Select three answers.)

The JSP excerpt with the errors is:

```
<html>
<body>
1 <%! public double calculateTax(double price)
    {return price * taxRate;}%>
2 <% double taxRate = 0.15;%>
3 <% public double calculateTotal(double price, double tax)
    {return price + tax;}%>
4 <% double price = 100.00; %>
5 The price without tax is: <%= price %> <br>
6 The tax rate is: <%= taxRate %> <br>
7 The tax on your purchase is: <% calculateTax(price); %> <br>
    The total cost is: <%= calculateTotal(price, calculateTax(price))%> <br>
</body>
</html>
```

- A. Line 1
- B. Line 2
- C. Line 3
- D. Line 4
- E. Line 5
- F. Line 6
- G. Line 7

Answer: BCG

96. A servlet instantiates a JavaBean and stores it in the ServletContext object using the following code:

```
com.mybean.Employee worker = new com.mybean.Employee();
```

```
servletContext.setAttribute("employee", worker);
```

The servlet then returns a response to the client, which subsequently makes another request to a JSP in

the same Web application as the original servlet. Which of the following allows the JSP to retrieve the JavaBean that the servlet stored in the ServletContext?

- A. `<jsp:useBean id="employee" class="com.mybean.Employee" scope="servletcontext" />`
- B. `<jsp:useBean id="worker" class="com.mybean.Employee" scope="session" />`
- C. `<jsp:useBean id="employee" class="com.mybean.Employee" scope="request" />`
- D. `<jsp:useBean id="worker" class="com.mybean.Employee" scope="application" />`
- E. `<jsp:useBean id="worker" class="com.mybean.Employee" />`
- F. The original JavaBean cannot be retrieved.

Answer: D

97. Given the following use of the useBean action tag:

```
<jsp:useBean id="car" class="com.myauto.Car" />
```

With which scope shall this bean be associated?

- A. page
- B. request
- C. session
- D. application

Answer: A

98. Which is the default control type for an HTML input element?

- A. text
- B. button
- C. checkbox
- D. radio

Answer: A

99. Which HTTP header type contains the Cache-Control field?

- A. general-header
- B. request-header
- C. response-header
- D. entity-header

Answer: A

100. In the following JSP include directive

```
(<%@ include file="?" %>)
```

which two are valid types of files that can appear in the file attribute?

- A. JavaBean class
- B. JSP file
- C. HTML file

- D. Servlet
- E. Enterprise JavaBean

Answer: BC

101. A Web application is made up of two JSP files (main.jsp and error.jsp). Any exceptions thrown within main.jsp should be automatically handled by error.jsp. What JSP directive should appear at the top of main.jsp in order to enable this functionality?

- A. `<%@ page isErrorPage="true"%>`
- B. `<%@ page isErrorPage="false"%>`
- C. `<%@ page errorPage="error.jsp"%>`
- D. `<% page redirectError="error.jsp";%>`

Answer: C

102. A contextual selector can be used to set which of the following?

- A. Exceptions to the current style sheet
- B. A JMS message destination
- C. JNDI root context
- D. Servlet context choices

Answer: A

103. A WML 1.1-enabled device is guaranteed to be compatible with which of the following image file types, if any?

- A. jpeg
- B. gif
- C. wbmp
- D. WML devices are not guaranteed to be compatible with any image file type.

Answer: D

104. Why would access to the user-agent header field of an HTTP request be important for a JSP?

- A. It allows for form-based input to be passed within the header rather than in a query string.
- B. It provides a secure mechanism to store a user's username and password for safe and easy access during Web-based transactions.
- C. It allows descriptive information about the device accessing the JSP to be obtained in order to avoid device-specific limitations.
- D. It allows conversational state to be managed by the JSP container by maintaining the session ID of a user.

Answer: C

105. Which of the following would be most appropriate to output the current date to a browser from a JSP?

- A. `<% new java.util.Date().toString(); %>`

- B. `<%= new java.util.Date().toString() %>`
- C. `<%! new java.util.Date().toString(); %>`
- D. `<jsp:useBean id="date" class="java.util.Date" />`

Answer: B

106. A developer wants to make use of a pre-existing tag library in a JSP. One of the tags in the library takes in two numbers, adds them together and outputs the result. The following directive appears at the top of the JSP that will use the tag:

```
<%@ taglib uri="http://www.mycorp/addition" prefix="calculate" />
```

Given the following excerpt from the tag library descriptor, what syntax would the developer use in order to use the tag called add that adds the two numbers together?

```
<tag>
  <name>add</name>
  <tagclass>com.examples.Calculator</tagclass>
  <attribute>
    <name>first</name>
    <required>true</required>
    <rtexprvalue>true</rtexprvalue>
  </attribute>
  <attribute>
    <name>second</name>
    <required>true</required>
    <rtexprvalue>true</rtexprvalue>
  </attribute>
</tag>
```

- A. `<calculate:add>first="5",second="10"</calculate:add>`
- B. `<addition:add first="5" second="10" />`
- C. `<calculate:add first="5" second="10" />`
- D. `<calculator:add first="5" second="10" />`

Answer: C

107. An application developer has written the following code on an HTML page supporting JavaScript to open a new window. Which of the following buttons provides the best way to close the new window?

```
<INPUT TYPE="button" VALUE="Open Message Window"
onClick="newWindow=window.open('tmpWindow', 'resizable=no,width=200,height=200')">
```

- A. `<INPUT TYPE="button" VALUE="Close Message Window" onClick="tmpWindow.close()>`
- B. `<INPUT TYPE="button" VALUE="Close Message Window" onClick="newWindow.close()>`

- C. `<INPUT TYPE="button" VALUE="Close Message Window" onClick="Child.close()">`
- D. `<INPUT TYPE="button" VALUE="Close Message Window" onClick="this.close()">`

Answer: B

108. A JSP developer needs to import the `java.util.ArrayList` class. What is the correct JSP syntax to import this class?

- A. `<% import java.util.ArrayList; %>`
- B. `<%! import java.util.ArrayList; %>`
- C. `<%@import class="java.util.ArrayList" %>`
- D. `<%@page import="java.util.ArrayList" %>`

Answer: D

109. Which of the following is NOT a pre-defined do type for the `<do>` tag in WML?

- A. `accept`
- B. `prev`
- C. `x-*,X-*`
- D. `reset`
- E. `go`

Answer: E

110. Consider the following traditional JSP tag:

```
<%! int i = 0; %>
```

Which of the following represent the complete and correct XML-based JSP tags to accomplish the same task as the traditional JSP tag above?

- A. `<jsp:declaration int i = 0; />`
- B. `<jsp:declaration>int i = 0;</jsp:declaration>`
- C. `<declaration int i = 0;></declaration>`
- D. `<declaration int i = 0; />`

Answer: B

111. Choose the appropriate XSLT selector that transforms the following element:

```
<book_title>
```

into an HTML `<H1>` element content:

```
<book_title>Cool Book</book_title>
```

- A. `<H1><xsl: value-of select="book_title"></H1>`
- B. `<H1><xsl: value-of ="book_title"></H1>`
- C. `<H1><xsl: value-select="book_title"></H1>`
- D. `<H1><xsl: select="book_title"></H1>`

Answer: A

112. In a JAX-RPC application, a SOAP "struct" maps to:

- A. a vector.
- B. an array.
- C. a JavaBean class.
- D. a properties file.

Answer: C

113. Which two of the following items will cause a parsing error in an XML file?

- A. <atag> <atag>
- B. <atag> </atag>
- C. </atag>
- D. <atag/>

Answer: AC

114. The cardinality of an element defined by an XML Schema is set with which of the following attributes?

- A. minOccurs, maxOccurs
- B. minTimes, maxTimes
- C. occurs=min:max
- D. instances=min:max

Answer: A

115. Which section of a WSDL document would be modified to change the sequence of messages the document describes?

- A. portType
- B. message
- C. binding
- D. service

Answer: A

116. In an application server, which of the following J2EE technologies are most often used to directly implement the processing of a Web Service request?

- A. Servlet
- B. JDBC
- C. RMI
- D. EJB

Answer: AD

117. Which of the following CANNOT be passed in a JAX-RPC remote method invocation?

- A. Remote references
- B. String arrays

- C. JavaBeans
- D. BigDecimal objects

Answer: A

118. A SOAP message is required to contain which elements?

- A. envelope, header and body
- B. header and body
- C. envelope and header
- D. envelope and body

Answer: D

119. The service directly used to publicly locate and identify the Web Services offered on a server would implement which specification?

- A. UDDI
- B. SOAP
- C. WSDL
- D. ebXML
- E. JNDI

Answer: A

120. Which attribute is used to indicate that a header entry has to be processed by a recipient?

- A. mustUnderstand
- B. required
- C. willProcess
- D. notOptional

Answer: A

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