

www.TestsNow.com Q: 1 To take advantage of the capabilities of modern browsers that use web standards, such as XHTML and CSS, your web application is being converted from simple **JSP pages to JSP Document format**. However, one of your JSPs, /scripts/screenFunctions.jsp, generates a JavaScript file. This file is included in several web forms to create screen-specific validation functions and are included in these pages with the following statement:

10. <head>
11. <script src='/scripts/screenFunctions.jsp'
12. language='javascript'
13. type='application/javascript'> </script>
14. </head>
15. <!-- body of the web form -->

Which JSP code snippet declares that this JSP Document is a JavaScript file?

- A. <%@ page contentType='application/javascript' %>
- B. <jsp:page contentType='application/javascript' />
- C. <jsp:document contentType='application/javascript' />
- D. <jsp:directive.page contentType='application/javascript' />
- E. No declaration is needed because the web form XHTML page already declares the MIME type of the /scripts/screenFunctions.jsp file in the <script> tag.

Answer: D

www.TestsNow.com Q: 2 Given the JSP code:

10. <html>
11. <body>
12. <jsp:useBean id='customer' class='com.example.Customer' />
13. Hello, \${customer.title} \${customer.lastName}, welcome
14. to Squeaky Beans, Inc.
15. </body>
16. </html>

Which three types of JSP code are used? (Choose three.)

- A. Java code
- B. template text
- C. scripting code
- D. standard action

E. expression language

Answer: B, D, E

www.TestsNow.com Q: 3 You have built a collection of custom tags for your web application. The TLD file is located in the file: /WEB-INF/myTags.xml. You refer to these tags in your JSPs using the symbolic name: myTags. Which deployment descriptor element must you use to make this link between the symbolic name and the TLD file name?

- A. <taglib>
<name>myTags</name>
<location>/WEB-INF/myTags.xml</location>
</taglib>
- B. <tags>
<name>myTags</name>
<location>/WEB-INF/myTags.xml</location>
</tags>
- C. <tags>
<tags-uri>myTags</tags-uri>
<tags-location>/WEB-INF/myTags.xml</tags-location>
</tags>
- D. <taglib>
<taglib-uri>myTags</taglib-uri>
<taglib-location>/WEB-INF/myTags.xml</taglib-location>
</taglib>

Answer: D

www.TestsNow.com Q: 4 Which implicit object is used in a JSP page to retrieve values associated with <context-param> entries in the deployment descriptor?

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

Answer: D

www.TestsNow.com Q: 5 Click the Task button.

Place the events in the order they occur.

Drag and Drop

Place the events in the order they occur.

Order of Steps	Events
1st	jspInit is called
2nd	JSP page implementation class is loaded
3rd	JSP page is compiled
4th	jspDestroy is called
5th	JSP page implementation is instantiated
6th	JSP page is translated
7th	_jspService is called

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 6 Click the Task button.

Place the code snippets in the proper order to construct the JSP code to import static content into a JSP page at translation-time.

Drag and Drop

Place the code snippets in the proper order to construct the JSP code to import static content into a JSP page at translation-time.

JSP Code:

Place here.

Place here.

Place here.

Code Snippets:

import='foo.jsp'

</>

file='foo.jsp'

<%@ include

<jsp:import

page='foo.jsp'

%>

<%@ import

<jsp:include

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 7 You have created a JSP that includes instance variables and a great deal of scriptlet code. Unfortunately, after extensive load testing, you have discovered several race conditions in your JSP scriptlet code. To fix these problems would require significant recoding, but you are already behind schedule. Which JSP code snippet can you use to resolve these concurrency problems?

- A. <%@ page isThreadSafe='false' %>
- B. <%@ implements SingleThreadModel %>
- C. <%! implements SingleThreadModel %>
- D. <%@ page useSingleThreadModel='true' %>
- E. <%@ page implements='SingleThreadModel' %>

Answer: A

www.TestNow's.com Q: 8 Click the Exhibit button.

The attribute "name" has a value of "Foo,"

What is the result if this tag handler's tag is invoked?

```
5. public class MyTagHandler extends
TagSupport {
6.     public int doStartTag() throws
JspException {
7.         try {
8.             Writer out =
pageContext.getResponse().getWriter();
9.             String name =
pageContext.findAttribute("name");
10.            out.print(name);
11.        } catch(Exception ex) { /* handle
exception */ }
12.        return SKIP_BODY;
13.    }
14.
15.    public int doAfterBody() throws
JspException {
16.        try {
17.            Writer out =
pageContext.getResponse().getWriter();
18.            out.print("done");
19.        } catch(Exception ex) { /* handle
exception */ }
20.        return EVAL_PAGE;
21.    }
...
42. }
```

- A. Foo
- B. done
- C. Foodone
- D. An exception is thrown at runtime.
- E. No output is produced from this code.
- F. Compilation fails because of an error in this code.

Answer: A

www.TestsNow.com Q: 9 You are building a web application that will be used throughout the European Union; therefore, it has significant internationalization requirements. You have been tasked to create a custom tag that generates a message using the `java.text.MessageFormat` class. The tag will take the `resourceKey` attribute and a variable number of argument attributes with the format, `arg<N>`. Here is an example use of this tag and its output:

```
<t:message resourceKey='diskFileMsg' arg0='MyDisk' arg1='1247' />
```

generates:

The disk "MyDisk" contains 1247 file(s).

Which Simple tag class definition accomplishes this goal of handling a variable number of tag attributes?

- A.

```
public class MessageTag extends SimpleTagSupport
implements VariableAttributes {
private Map attributes = new HashMap();
public void setVariableAttribute(String uri,
String name, Object value) {
this.attributes.put(name, value);
}
// more tag handler methods
}
```
- B. The Simple tag model does NOT support a variable number of attributes.
- C.

```
public class MessageTag extends SimpleTagSupport
implements DynamicAttributes {
private Map attributes = new HashMap();
public void putAttribute(String name, Object value) {
this.attributes.put(name, value);
}
// more tag handler methods
}
```
- D.

```
public class MessageTag extends SimpleTagSupport
implements VariableAttributes {
private Map attributes = new HashMap();
public void putAttribute(String name, Object value) {
this.attributes.put(name, value);
}
// more tag handler methods
}
```
- E.

```
public class MessageTag extends SimpleTagSupport
implements DynamicAttributes {
private Map attributes = new HashMap();
```

```
public void setDynamicAttribute(String uri, String name,
Object value) {
this.attributes.put(name, value);
}
// more tag handler methods
}
```

Answer: E

www.TestNow.com Q: 10 Given the JSP code:

```
<% request.setAttribute("foo", "bar"); %>
```

and the Classic tag handler code:

```
5. public int doStartTag() throws JspException {
6. // insert code here
7. // return int
8. }
```

Assume there are no other "foo" attributes in the web application.

Which invocation on the pageContext object, inserted at line 6, assigns "bar" to the variable x?

- A. String x = (String) pageContext.getAttribute("foo");
- B. String x = (String) pageContext.getRequestScope("foo");
- C. It is NOT possible to access the pageContext object from within doStartTag.
- D. String x = (String) pageContext.getRequest().getAttribute("foo");
- E. String x = (String) pageContext.getAttribute("foo", PageContext.ANY_SCOPE);

Answer: D

www.TestNow.com Q: 11 Which two statements about tag files are true? (Choose two.)

- A. Classic tag handlers and tag files CANNOT reside in the same tag library.
- B. A file named foo.tag, located in /WEB-INF/tags/bar, is recognized as a tag file by the container.
- C. A file named foo.tag, bundled in a JAR file but NOT defined in a TLD, triggers a container translation error.
- D. A file named foo.tag, located in a web application's root directory, is recognized as a tag file by the container.

E. If files foo1.tag and foo2.tag both reside in /WEB-INF/tags/bar, the container will consider them part of the same tag library.

Answer: B, E

www.TestNow.com Q: 12 The sl:shoppingList and sl:item tags output a shopping list to the response and are used as follows:

11. <sl:shoppingList>
12. <sl:item name="Bread" />
13. <sl:item name="Milk" />
14. <sl:item name="Eggs" />
15. </sl:shoppingList>

The tag handler for sl:shoppingList is ShoppingListTag and the tag handler for sl:item is ItemSimpleTag.

ShoppingListTag extends BodyTagSupport and ItemSimpleTag extends SimpleTagSupport.

Which is true?

- A. ItemSimpleTag can find the enclosing instance of ShoppingListTag by calling getParent() and casting the result to ShoppingListTag.
- B. ShoppingListTag can find the child instances of ItemSimpleTag by calling super.getChildren() and casting each to an ItemSimpleTag.
- C. It is impossible for ItemSimpleTag and ShoppingListTag to find each other in a tag hierarchy because one is a Simple tag and the other is a Classic tag.
- D. ShoppingListTag can find the child instances of ItemSimpleTag by calling getChildren() on the PageContext and casting each to an ItemSimpleTag.
- E. ItemSimpleTag can find the enclosing instance of ShoppingListTag by calling findAncestorWithClass() on the PageContext and casting the result to ShoppingListTag.

Answer: A

www.TestNow.com Q: 13 Servlet A receives a request that it forwards to servlet B within another web application in the same web container. Servlet A needs to share data with servlet B and that data must not be visible to other servlets in A's web application. In which object can the data that A shares with B be stored?

- A. HttpSession
- B. ServletConfig
- C. ServletContext

- D. HttpServletRequest
- E. HttpServletResponse

Answer: D

www.TestsNow.com Q: 14 Your web site has many user-customizable features, for example font and color preferences on web pages. Your IT department has already built a subsystem for user preferences using the Java SE platform's lang.util.prefs package APIs, and you have been ordered to reuse this subsystem in your web application. You need to create an event listener that constructs the preferences factory and stores it in the application scope for later use. Furthermore, this factory requires that the URL to a database must be declared in the deployment descriptor like this:

- 42. <context-param>
- 43. <param-name>prefsDbURL</param-name>
- 44. <param-value>
- 45. jdbc:pointbase:server://dbhost:4747/prefsDB
- 46. </param-value>
- 47. </context-param>

Which partial listener class will accomplish this goal?

- A.

```
public class PrefsFactoryInitializer implements ContextListener {  
    public void contextInitialized(ServletContextEvent e) {  
        ServletContext ctx = e.getContext();  
        String prefsURL = ctx.getParameter("prefsDbURL");  
        PreferencesFactory myFactory = makeFactory(prefsURL);  
        ctx.putAttribute("myPrefsFactory", myFactory);  
    }  
    // more code here  
}
```
- B.

```
public class PrefsFactoryInitializer implements ServletContextListener {  
    public void contextCreated(ServletContext ctx) {  
        String prefsURL = ctx.getInitParameter("prefsDbURL");  
        PreferencesFactory myFactory = makeFactory(prefsURL);  
        ctx.setAttribute("myPrefsFactory", myFactory);  
    }  
    // more code here  
}
```
- C.

```
public class PrefsFactoryInitializer implements ServletContextListener {  
    public void contextInitialized(ServletContextEvent e) {  
        ServletContext ctx = e.getServletContext();  
        String prefsURL = ctx.getInitParameter("prefsDbURL");  
        PreferencesFactory myFactory = makeFactory(prefsURL);  
        ctx.setAttribute("myPrefsFactory", myFactory);  
    }  
    // more code here  
}
```

```

}
// more code here
}
D. public class PrefsFactoryInitializer implements ContextListener {
public void contextCreated(ServletContext ctx) {
String prefsURL = ctx.getParameter("prefsDbURL");
PreferencesFactory myFactory = makeFactory(prefsURL);
ctx.putAttribute("myPrefsFactory", myFactory);
}
// more code here
}

```

Answer: C

www.TestNow.com Q: 15 A developer wants a web application to be notified when the application is about to be shut down. Which two actions are necessary to accomplish this goal? (Choose two.)

- A. include a listener directive in a JSP page
- B. configure a listener in the TLD file using the <listener> element
- C. include a <servlet-destroy> element in the web application deployment descriptor
- D. configure a listener in the application deployment descriptor, using the <listener> element
- E. include a class implementing ServletContextListener as part of the web application deployment
- F. include a class implementing ContextDestroyedListener as part of the web application deployment
- G. include a class implementing HttpSessionAttributeListener as part of the web application deployment

Answer: D, E

www.TestNow.com Q: 16 You want to create a filter for your web application and your filter will implement javax.servlet.Filter.

Which two statements are true? (Choose two.)

- A. Your filter class must implement an init method and a destroy method.
- B. Your filter class must also implement javax.servlet.FilterChain.
- C. When your filter chains to the next filter, it should pass the same arguments it received in its doFilter method.
- D. The method that your filter invokes on the object it received that implements javax.servlet.FilterChain can invoke either another filter or a servlet.
- E. Your filter class must implement a doFilter method that takes, among other things, an HttpServletRequest object and an HttpServletResponse object.

Answer: A, D

www.TestNow.com Q: 17 Which three are true about the HttpServletRequestWrapper class? (Choose three.)

- A. The HttpServletRequestWrapper is an example of the Decorator pattern.
- B. The HttpServletRequestWrapper can be used to extend the functionality of a servlet request.
- C. A subclass of HttpServletRequestWrapper CANNOT modify the behavior of the getReader method.
- D. An HttpServletRequestWrapper may be used only by a class implementing the javax.servlet.Filter interface.
- E. An HttpServletRequestWrapper CANNOT be used on the request passed to the RequestDispatcher.include method.
- F. An HttpServletRequestWrapper may modify the header of a request within an object implementing the javax.servlet.Filter interface.

Answer: A, B, F

www.TestNow.com Q: 18 Click the Exhibit button.

The resource requested by the RequestDispatcher is available and implemented by the DestinationServlet.

What is the result?

```

// From file SourceServlet.java
11. public class SourceServlet extends
HttpServlet {
12.     public void service(HttpServletRequest
request,
13.                         HttpServletResponse
response)
14.         throws ServletException,
IOException {
15.         ServletContext
cxt=getServletConfig().getServletContext();
16.         RequestDispatcher rd =
17.             cxt.getRequestDispatcher("/dest
n");
18.         response.getWriter().println("hello
from source");
19.         response.flushBuffer();
20.         rd.forward(request, response);
21.     }
22. }

// From file DestinationServlet.java
11. public class DestinationServlet extends
HttpServlet {
12.     public void service(HttpServletRequest
request,
13.                         HttpServletResponse
response)
14.         throws ServletException,
IOException {
15.         response.getWriter().println("hello
from dest");
17.         response.flushBuffer();
18.     }
19. }

```

- A. An exception is thrown at runtime by SourceServlet.
- B. An exception is thrown at runtime by DestinationServlet.
- C. Only "hello from dest" appears in the response output stream.
- D. Both "hello from source" and "hello from dest" appear in the response output stream.

Answer: A

www.TestNow.com Q: 19 A developer wants to make a name attribute available to all servlets associated with a particular user, across multiple requests from that user, from the same browser instance.

Which two provide this capability from within a tag handler? (Choose two.)

- A. `pageContext.setAttribute("name", theValue);`
- B. `pageContext.setAttribute("name", getSession());`
- C. `pageContext.getRequest().setAttribute("name", theValue);`
- D. `pageContext.getSession().setAttribute("name", theValue);`
- E. `pageContext.setAttribute("name", theValue, PageContext.PAGE_SCOPE);`
- F. `pageContext.setAttribute("name", theValue, PageContext.SESSION_SCOPE);`

Answer: D, F

www.TestNow.com Q: 20 Given the definition of MyServlet:

```
11. public class MyServlet extends HttpServlet {  
12.     public void service(HttpServletRequest request,  
13.         HttpServletResponse response)  
14.         throws ServletException, IOException {  
15.         HttpSession session = request.getSession();  
16.         session.setAttribute("myAttribute", "myAttributeValue");  
17.         session.invalidate();  
18.         response.getWriter().println("value=" +  
19.             session.getAttribute("myAttribute"));  
20.     }  
21. }
```

What is the result when a request is sent to MyServlet?

- A. An `IllegalStateException` is thrown at runtime.
- B. An `InvalidSessionException` is thrown at runtime.
- C. The string "value=null" appears in the response stream.
- D. The string "value=myAttributeValue" appears in the response stream.

Answer: A

www.TestNow.com Q: 21 You need to store a Java long primitive attribute, called customerOID, into the session scope. Which two code snippets allow you to insert this value into the session? (Choose two.)

- A. `long customerOID = 47L;`
`session.setAttribute("customerOID", new Long(customerOID));`
- B. `long customerOID = 47L;`
`session.setLongAttribute("customerOID", new Long(customerOID));`
- C. `long customerOID = 47L;`
`session.setAttribute("customerOID", customerOID);`
- D. `long customerOID = 47L;`
`session.setNumericAttribute("customerOID", new Long(customerOID));`
- E. `long customerOID = 47L;`
`session.setLongAttribute("customerOID", customerOID);`
- F. `long customerOID = 47L;`
`session.setNumericAttribute("customerOID", customerOID);`

Answer: A, C

www.TestNow.com Q: 22 A developer for the company web site has been told that users may turn off cookie support in their browsers. What must the developer do to ensure that these customers can still use the web application?

- A. The developer must ensure that every URL is properly encoded using the appropriate URL rewriting APIs.
- B. The developer must provide an alternate mechanism for managing sessions and abandon the HttpSession mechanism entirely.
- C. The developer can ignore this issue. Web containers are required to support automatic URL rewriting when cookies are not supported.
- D. The developer must add the string `id=<sessionid>` to the end of every URL to ensure that the conversation with the browser can continue.

Answer: A

www.TestNow.com Q: 23 Your web application requires the adding and deleting of many session attributes during a complex use case. A bug report has come in that indicates that an important session attribute is being deleted too soon and a `NullPointerException` is being thrown several interactions after the fact. You have decided to create a session event listener that will log when attributes are being deleted so you can track down when the attribute is erroneously being deleted.

Which listener class will accomplish this debugging goal?

- A. Create an HttpSessionAttributeListener class and implement the attributeDeleted method and log the attribute name using the getName method on the event object.
- B. Create an HttpSessionAttributeListener class and implement the attributeRemoved method and log the attribute name using the getName method on the event object.
- C. Create an SessionAttributeListener class and implement the attributeRemoved method and log the attribute name using the getAttributeName method on the event object.
- D. Create an SessionAttributeListener class and implement the attributeDeleted method and log the attribute name using the getAttributeName method on the event object.

Answer: B

www.TestNews.com Q: 24 As a convenience feature, your web pages include an Ajax request every five minutes to a special servlet that monitors the age of the user's session. The client-side JavaScript that handles the Ajax callback displays a message on the screen as the session ages. The Ajax call does NOT pass any cookies, but it passes the session ID in a request parameter called sessionId. In addition, assume that your webapp keeps a hashmap of session objects by the ID. Here is a partial implementation of this servlet:

```

10. public class SessionAgeServlet extends HttpServlet {
11.     public void service(HttpServletRequest request, HttpServletResponse) throws IOException {
12.         String sessionId = request.getParameter("sessionId");
13.         HttpSession session = getSession(sessionId);
14.         long age = // your code here
15.         response.getWriter().print(age);
16.     } ... // more code here
47. }

```

Which code snippet on line 14, will determine the age of the session?

- A. session.getMaxInactiveInterval();
- B. session.getLastAccessed().getTime() - session.getCreationTime().getTime();
- C. session.getLastAccessedTime().getTime() - session.getCreationTime().getTime();
- D. session.getLastAccessed() - session.getCreationTime();
- E. session.getMaxInactiveInterval() - session.getCreationTime();
- F. session.getLastAccessedTime() - session.getCreationTime();

Answer: F

www.TestNews.com Q: 25 Which statement is true about web container session management?

- A. Access to session-scoped attributes is guaranteed to be thread-safe by the web container.
- B. To activate URL rewriting, the developer must use the HttpServletResponse.setURLRewriting method.

- C. If the web application uses HTTPS, then the web container may use the data on the HTTPS request stream to identify the client.
- D. The JSESSIONID cookie is stored permanently on the client so that a user may return to the web application and the web container will rejoin that session.

Answer: C

www.TestNews.com Q: 26 One of the use cases in your web application uses many session-scoped attributes. At the end of the use case, you want to clear out this set of attributes from the session object. Assume that this static variable holds this set of attribute names:

```
201. private static final Set<String> USE_CASE_ATTRS;  
202. static {  
203.     USE_CASE_ATTRS.add("customerOID");  
204.     USE_CASE_ATTRS.add("custMgrBean");  
205.     USE_CASE_ATTRS.add("orderOID");  
206.     USE_CASE_ATTRS.add("orderMgrBean");  
207. }
```

Which code snippet deletes these attributes from the session object?

- A. session.removeAll(USE_CASE_ATTRS);
- B. for (String attr : USE_CASE_ATTRS) {
session.remove(attr);
}
- C. for (String attr : USE_CASE_ATTRS) {
session.removeAttribute(attr);
}
- D. for (String attr : USE_CASE_ATTRS) {
session.deleteAttribute(attr);
}
- E. session.deleteAllAttributes(USE_CASE_ATTRS);

Answer: C

www.TestNews.com Q: 27 Assume that a news tag library contains the tags lookup and item:

lookup Retrieves the latest news headlines and executes the tag body once for each headline. Exposes a NESTED page-scoped attribute called headline of type com.example.Headline containing details for that headline.

item Outputs the HTML for a single news headline. Accepts an attribute info of type `com.example.Headline` containing details for the headline to be rendered. Which snippet of JSP code returns the latest news headlines in an HTML table, one per row?

- A. `<table>`
`<tr>`
`<td>`
`<news:lookup />`
`<news:item info="${headline}" />`
`</td>`
`</tr>`
`</table>`
- B. `<news:lookup />`
`<table>`
`<tr>`
`<td><news:item info="${headline}" /></td>`
`</tr>`
`</table>`
- C. `<table>`
`<news:lookup>`
`<tr>`
`<td><news:item info="${headline}" /></td>`
`</tr>`
`</news:lookup>`
`</table>`
- D. `<table>`
`<tr>`
`<news:lookup>`
`<td><news:item info="${headline}" /></td>`
`</news:lookup>`
`</tr>`
`</table>`

Answer: C

www.TestNow.com Q: 28 Which JSTL code snippet can be used to perform URL rewriting?

- A. `<a href='<c:url url="foo.jsp"/>' />`
- B. `<a href='<c:link url="foo.jsp"/>' />`
- C. `<a href='<c:url value="foo.jsp"/>' />`
- D. `<a href='<c:link value="foo.jsp"/>' />`

Answer: C

www.TestNow.com Q: 29 Assume the scoped attribute priority does NOT yet exist. Which two create and set a new request-scoped attribute priority to the value "medium"? (Choose two.)

- A. `${priority = 'medium'}`
- B. `${requestScope['priority'] = 'medium'}`
- C. `<c:set var="priority" value="medium" />`
- D. `<c:set var="priority" scope="request">medium</c:set>`
- E. `<c:set var="priority" value="medium" scope="request" />`
- F. `<c:set property="priority" scope="request">medium</c:set>`
- G. `<c:set property="priority" value="medium" scope="request" />`

Answer: D, E

www.TestNow.com Q: 30 You are creating a JSP page to display a collection of data. This data can be displayed in several different ways so the architect on your project decided to create a generic servlet that generates a comma-delimited string so that various pages can render the data in different ways. This servlet takes on request parameter: `objectID`. Assume that this servlet is mapped to the URL pattern: `/WEB-INF/data`.

In the JSP you are creating, you need to split this string into its elements separated by commas and generate an HTML `` list from the data.

Which JSTL code snippet will accomplish this goal?

- A. `<c:import varReader='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forTokens items='${dataString.split(",")}' var='item'>`
`${item}`
`</c:forTokens>`
``
- B. `<c:import varReader='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forTokens items='${dataString}' delims=', ' var='item'>`
`${item}`
`</c:forTokens>`
``
- C. `<c:import var='dataString' url='/WEB-INF/data'>`

```

<c:param name='objectID' value='${currentOID}' />
</c:import>
<ul>
<c:forTokens items='${dataString.split(",")}' var='item'>
<li>${item}</li>
</c:forTokens>
</ul>
D. <c:import var='dataString' url='/WEB-INF/data'>
<c:param name='objectID' value='${currentOID}' />
</c:import>
<ul>
<c:forTokens items='${dataString}' delims=',' var='item'>
<li>${item}</li>
</c:forTokens>
</ul>

```

Answer: D

www.TestNow.com Q: 31 Which three are true about TLD files? (Choose three.)

- A. The web container recognizes TLD files placed in any subdirectory of WEB-INF.
- B. When deployed inside a JAR file, TLD files must be in the META-INF directory, or a subdirectory of it.
- C. A tag handler's attribute must be included in the TLD file only if the attribute can accept request-time expressions.
- D. The web container can generate an implicit TLD file for a tag library comprised of both simple tag handlers and tag files.
- E. The web container can automatically extend the tag library map described in a web.xml file by including entries extracted from the web application's TLD files.

Answer: A, B, E

www.TestNow.com Q: 32 Your management has required that all JSPs be created to generate XHTML-compliant content and to facilitate that decision, you are required to create all JSPs using the JSP Document format. In the reviewOrder.jsp page, you need to use several core JSTL tags to process the collection of order items in the customer's shopping cart. Which JSP code snippets must you use in the reviewOrder.jsp page?

```

A. <html xmlns:jsp="http://java.sun.com/JSP/Page"
version="2.0">
<jsp:directive.taglib prefix="c"
uri="http://java.sun.com/jsp/jstl/core" />
<!-- page content -->

```

</html>

B. <html xmlns:jsp="http://java.sun.com/JSP/Page" version="2.0"

xmlns:c="http://java.sun.com/jsp/jstl/core">

<!-- page content -->

</html>

C. <jsp:root xmlns:jsp="http://java.sun.com/JSP/Page" version="2.0">

<jsp:directive.taglib prefix="c"

uri="http://java.sun.com/jsp/jstl/core" />

<!-- page content -->

</jsp:root>

D. <jsp:root xmlns:jsp="http://java.sun.com/JSP/Page" version="2.0"

xmlns:c="http://java.sun.com/jsp/jstl/core">

<!-- page content -->

</jsp:root>

Answer: D

www.TestNow.com Q: 33 Which two JSTL URL-related tags perform URL rewriting? (Choose two.)

- A. url
- B. link
- C. param
- D. import
- E. redirect

Answer: A, E

www.TestNow.com Q: 34 A custom JSP tag must be able to support an arbitrary number of attributes whose names are unknown when the tag class is designed. Which two are true? (Choose two.)

- A. The <body-content> element in the echo tag TLD must have the value JSP.
- B. The echo tag handler must define the setAttribute(String key, String value) method.
- C. The <dynamic-attributes>true</dynamic-attributes> element must appear in the echo tag TLD.
- D. The class implementing the echo tag handler must implement the javax.servlet.jsp.tagext.IterationTag interface.
- E. The class implementing the echo tag handler must implement the javax.servlet.jsp.tagext.DynamicAttributes interface.

Answer: C, E

www.TestNow.com Q: 35 A developer has used this code within a servlet:

```
62. if(request.isUserInRole("vip")) {  
63.     // VIP-related logic here  
64. }
```

What else must the developer do to ensure that the intended security goal is achieved?

- A. create a user called vip in the security realm
- B. define a group within the security realm and call it vip
- C. define a security-role named vip in the deployment descriptor
- D. declare a security-role-ref for vip in the deployment descriptor

Answer: D

www.TestNow.com Q: 36 Given:

```
3. class MyServlet extends HttpServlet {  
4.     public void doPut(HttpServletRequest req, HttpServletResponse resp) throws ServletException,  
IOException {  
5.         // servlet code here ...  
26.     }  
27. }
```

If the DD contains a single security constraint associated with MyServlet and its only <http-method> tags and <auth-constraint> tags are:

```
<http-method>GET</http-method>  
<http-method>PUT</http-method>  
<auth-constraint>Admin</auth-constraint>
```

Which four requests would be allowed by the container? (Choose four.)

- A. A user whose role is Admin can perform a PUT.
- B. A user whose role is Admin can perform a GET.
- C. A user whose role is Admin can perform a POST.
- D. A user whose role is Member can perform a PUT.
- E. A user whose role is Member can perform a POST.
- F. A user whose role is Member can perform a GET.

Answer: A, B, C, E

www.TestNews.com Q: 37 What is true about Java EE authentication mechanisms?

- A. If your deployment descriptor correctly declares an authentication type of CLIENT_CERT, your users must have a certificate from an official source before they can use your application.
- B. If your deployment descriptor correctly declares an authentication type of BASIC, the container automatically requests a user name and password whenever a user starts a new session.
- C. If you want your web application to support the widest possible array of browsers, and you want to perform authentication, the best choice of Java EE authentication mechanisms is DIGEST.
- D. To use Java EE FORM authentication, you must declare two HTML files in your deployment descriptor, and you must use a predefined action in the HTML file that handles your user's login.

Answer: D

www.TestNews.com Q: 38 If you want to use the Java EE platform's built-in type of authentication that uses a custom HTML page for authentication, which two statements are true? (Choose two.)

- A. Your deployment descriptor will need to contain this tag:
<auth-method>CUSTOM</auth-method>.
- B. The related custom HTML login page must be named loginPage.html.
- C. When you use this type of authentication, SSL is turned on automatically.
- D. You must have a tag in your deployment descriptor that allows you to point to both a login HTML page and an HTML page for handling any login errors.
- E. In the HTML related to authentication for this application, you must use predefined variable names for the variables that store the user and password values.

Answer: D, E

www.TestNews.com Q: 39 Given this fragment in a servlet:

```
23. if(req.isUserInRole("Admin")) {  
24. // do stuff  
25. }
```

And the following fragment from the related Java EE deployment descriptor:

```
812. <security-role-ref>  
813. <role-name>Admin</role-name>  
814. <role-link>Administrator</role-link>  
815. </security-role-ref>  
900. <security-role>
```

901. `<role-name>Admin</role-name>`
902. `<role-name>Administrator</role-name>`
903. `</security-role>`

What is the result?

- A. Line 24 can never be reached.
- B. The deployment descriptor is NOT valid.
- C. If line 24 executes, the user's role will be Admin.
- D. If line 24 executes, the user's role will be Administrator.
- E. If line 24 executes the user's role will NOT be predictable.

Answer: D

www.TestNews.com Q: 40 Given the security constraint in a DD:

101. `<security-constraint>`
102. `<web-resource-collection>`
103. `<web-resource-name>Foo</web-resource-name>`
104. `<url-pattern>/Bar/Baz/*</url-pattern>`
105. `<http-method>POST</http-method>`
106. `</web-resource-collection>`
107. `<auth-constraint>`
108. `<role-name>DEVELOPER</role-name>`
109. `</auth-constraint>`
110. `</security-constraint>`

And given that "MANAGER" is a valid role-name, which four are true for this security constraint? (Choose four.)

- A. MANAGER can do a GET on resources in the /Bar/Baz directory.
- B. MANAGER can do a POST on any resource in the /Bar/Baz directory.
- C. MANAGER can do a TRACE on any resource in the /Bar/Baz directory.
- D. DEVELOPER can do a GET on resources in the /Bar/Baz directory.
- E. DEVELOPER can do only a POST on resources in the /Bar/Baz directory.
- F. DEVELOPER can do a TRACE on any resource in the /Bar/Baz directory.

Answer: A, C, D, F

www.TestNews.com Q: 41 Which three are valid URL mappings to a servlet in a web deployment descriptor? (Choose three.)

- A. /*
- B. *.do
- C. MyServlet
- D. /MyServlet
- E. /MyServlet/*
- F. MyServlet/*.jsp

Answer: B, D, E

www.TestNews.com Q: 42 Click the Task button.

Place the appropriate element names on the left on the web application deployment descriptor on the right so that files ending in ".mpg" are associated with the MIME type "video/mpeg."

Drag and Drop
_ □ ×

Place the appropriate element names on the left on the web application deployment descriptor on the right so that files ending in ".mpg" are associated with the MIME type "video/mpeg."

Web Application Deployment Descriptor Snippet	Element Names
<div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> >	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">file-type</div>
<div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> > mpg </ <div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> >	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">extension</div>
<div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> > video/mpeg </ <div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> >	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">mime</div>
</ <div style="border: 1px solid gray; background-color: yellow; padding: 2px; display: inline-block;">Place here.</div> >	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">content-type</div>
	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">suffix</div>
	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">mime-type</div>
	<div style="border: 1px solid gray; background-color: cyan; padding: 2px; display: inline-block;">mime-mapping</div>

Done

Answer: Check TestNews eEngine, Download from Member Center

www.TestNews.com Q: 43 Which three web application deployment descriptor elements allow web components to gain references to resources or EJB components? (Choose three.)

- A. ejb-ref
- B. jdbc-ref
- C. servlet-ref
- D. resource-ref
- E. javamail-ref
- F. ejb-remote-ref
- G. resource-env-ref

Answer: A, D, G

www.TestNews.com Q: 44 After a merger with another small business, your company has inherited a legacy WAR file but the original source files were lost. After reading the documentation of that web application, you discover that the WAR file contains a useful tag library that you want to reuse in your own webapp packaged as a WAR file.

What do you need to do to reuse this tag library?

- A. Simply rename the legacy WAR file as a JAR file and place it in your webapp's library directory.
- B. Unpack the legacy WAR file, move the TLD file to the META-INF directory, repackage the whole thing as a JAR file, and place that JAR file in your webapp's library directory.
- C. Unpack the legacy WAR file, move the TLD file to the META-INF directory, move the class files to the top-level directory, repackage the whole thing as a JAR file, and place that JAR file in your webapp's library directory.
- D. Unpack the legacy WAR file, move the TLD file to the META-INF directory, move the class files to the top-level directory, repackage the WAR, and place that WAR file in your webapp's WEB-INF directory.

Answer: C

www.TestNews.com Q: 45 Which two actions protect a resource file from direct HTTP access within a web application? (Choose two.)

- A. placing it in the /secure directory
- B. placing it in the /WEB-INF directory
- C. placing it in the /META-INF/secure directory
- D. creating a <web-resource> element within the deployment descriptor
- E. creating a <secure-resource> element within the deployment descriptor

Answer: B, C

www.TestsNow.com Q: 46 Given that `www.example.com/SCWCDtestApp` is a validly deployed Java EE web application and that all of the JSP files specified in the requests below exist in the locations specified. Which two requests, issued from a browser, will return an HTTP 404 error? (Choose two.)

- A. `http://www.example.com/SCWCDtestApp/test.jsp`
- B. `http://www.example.com/SCWCDtestApp/WEB-INF/test.jsp`
- C. `http://www.example.com/SCWCDtestApp/WEB-WAR/test.jsp`
- D. `http://www.example.com/SCWCDtestApp/Customer/test.jsp`
- E. `http://www.example.com/SCWCDtestApp/META-INF/test.jsp`
- F. `http://www.example.com/SCWCDtestApp/Customer/Update/test.jsp`

Answer: B, E

www.TestsNow.com Q: 47 Which two about WAR files are true? (Choose two.)

- A. WAR files must be located in the web application library directory.
- B. WAR files must contain the web application deployment descriptor.
- C. WAR files must be created by using archive tools designed specifically for that purpose.
- D. The web container must serve the content of any META-INF directory located in a WAR file.
- E. The web container must allow access to resources in JARs in the web application library directory.

Answer: B, E

www.TestsNow.com Q: 48 Given this fragment from a Java EE deployment descriptor:

- 124. `<welcome-file>beta.html</welcome-file>`
- 125. `<welcome-file>alpha.html</welcome-file>`

And this request from a browser:

`http://www.sun.com/SCWCDtestApp/register`

Which statement is correct, when the container receives this request?

- A. This deployment descriptor is NOT valid.
- B. The container first looks in the register directory for `beta.html`.
- C. The container first looks in the register directory for `alpha.html`.
- D. The container first looks for a servlet mapping in the deployment descriptor.

Answer: D

www.TestNow.com Q: 49 Which EL expression evaluates to the request URI?

- A. `${requestURI}`
- B. `${request.URI}`
- C. `${request.getURI}`
- D. `${request.requestURI}`
- E. `${requestScope.requestURI}`
- F. `${pageContext.request.requestURI}`
- G. `${requestScope.request.requestURI}`

Answer: F

www.TestNow.com Q: 50 Given:

1. `<% int[] nums = {42,420,4200};`
2. `request.setAttribute("foo", nums); %>`
3. `${5 + 3 lt 6}`
4. `${requestScope['foo'][0] ne 10 div 0}`
5. `${10 div 0}`

What is the result?

- A. true true
- B. false true
- C. false true 0
- D. true true Infinity
- E. false true Infinity
- F. An exception is thrown.
- G. Compilation or translation fails.

Answer: E

www.TestNow.com Q: 51 You have created a web application that you license to real estate brokers. The webapp is highly customizable including the email address of the broker, which is placed on the footer of each page. This is configured as a context parameter in the deployment descriptor:

10. `<context-param>`
11. `<param-name>footerEmail</param-name>`
12. `<param-value>joe@estates-r-us.biz</param-value>`

13. </context-param>

Which EL code snippet will insert this context parameter into the footer?

- A. `Contact me`
- B. `Contact me`
- C. `Contact me`
- D. `Contact me`
- E. `Contact me`

Answer: C

www.TestNews.com Q: 52 Given an EL function foo, in namespace func, that requires a long as a parameter and returns a Map, which two are valid invocations of function foo? (Choose two.)

- A. `${func(1)}`
- B. `${foo:func(4)}`
- C. `${func:foo(2)}`
- D. `${foo(5):func}`
- E. `${func:foo("easy")}`
- F. `${func:foo("3").name}`

Answer: C, F

www.TestNews.com Q: 53 Click the Exhibit button.

The Appliance class is a Singleton that loads a set of properties into a Map from an external data source. Assume:

An instance of the Appliance class exists in the application-scoped attribute, appl
The appliance object includes the name property that maps to the value Cobia
The request-scoped attribute, prop, has the value name.

Which two EL code snippets will display the string Cobia? (Choose two.)

```

1. package com.example;
2. import java.util.*;
3. public class Appliance {
4.     private Map<String,String> props;
5.     public Appliance() {
6.         this.props = new
HashMap<String,String>;
7.         initialize();
8.     }
9.     public Map<String,String>
getProperties() {
10.         return this.props;
11.     }
12.     private void initialize() {
13.         // code to load appliance properties
14.     }
15. }

```

- A. \${appl.properties.name}
- B. \${appl.properties.prop}
- C. \${appl.properties[prop]}
- D. \${appl.properties[name]}
- E. \${appl.getProperties().get(prop)}
- F. \${appl.getProperties().get('name')}

Answer: A, C

www.TestNow.com Q: 54 Squeaky Beans Inc. hired an outside consultant to develop their web application. To finish the job quickly, the consultant created several dozen JSP pages that directly communicate with the database. The Squeaky business team has since purchased a set of business objects to model their system, and the Squeaky developer charged with maintaining the web application must now refactor all the JSPs to work with the new system. Which pattern can the developer use to solve this problem?

- A. Transfer Object
- B. Service Locator
- C. Intercepting Filter
- D. Business Delegate

Answer: D

www.TestNow.com Q: 55 A developer is designing a web application that must verify for each request:

- The originating request is from a trusted network.**
- The client has a valid session.**
- The client has been authenticated.**

Which design pattern provides a solution in this situation?

- A. Transfer Object
- B. Session Facade
- C. Intercepting Filter
- D. Template Method
- E. Model-View-Controller

Answer: C

www.TestNow.com Q: 56 The Squeaky Bean company has decided to port their web application to a new J2EE 1.4 container. While reviewing the application, a developer realizes that in multiple places within the current application, nearly duplicate code exists that finds enterprise beans. Which pattern should be used to eliminate this duplicate code?

- A. Transfer Object
- B. Front Controller
- C. Service Locator
- D. Intercepting Filter
- E. Business Delegate
- F. Model-View-Controller

Answer: C

www.TestNow.com Q: 57 Which two are characteristics of the Transfer Object design pattern? (Choose two.)

- A. It reduces network traffic by collapsing multiple remote requests into one.
- B. It increases the complexity of the remote interface by removing coarse-grained methods.
- C. It increases the complexity of the design due to remote synchronization and version control issues.
- D. It increases network performance introducing multiple fine-grained remote requests which return very small amounts of data.

Answer: A, C

www.TestNews.com Q: 58 A developer has created a special servlet that is responsible for generating XML content that is sent to a data warehousing subsystem. This subsystem uses HTTP to request these large data files, which are compressed by the servlet to save internal network bandwidth. The developer has received a request from management to create several more of these data warehousing servlets. The developer is about to copy and paste the compression code into each new servlet. Which design pattern can consolidate this compression code to be used by all of the data warehousing servlets?

- A. Facade
- B. View Helper
- C. Transfer Object
- D. Intercepting Filter
- E. Composite Facade

Answer: D

www.TestNews.com Q: 59 Which two are characteristics of the Service Locator pattern? (Choose two.)

- A. It encapsulates component lookup procedures.
- B. It increases source code duplication and decreases reuse.
- C. It improves client performance by caching context and factory objects.
- D. It degrades network performance due to increased access to distributed lookup services.

Answer: A, C

www.TestNews.com Q: 60 Click the Task button.

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

Drag and Drop

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

HttpServletRequest Method	URI Segment
getServletPath	/myapp
getPathInfo	/control
getContext	/processorder

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 61 You are creating a web form with this HTML:

11. `<form action="sendOrder.jsp">`
12. `<input type="text" name="creditCard">`
13. `<input type="text" name="expirationDate">`
14. `<input type="submit">`
15. `</form>`

Which HTTP method is used when sending this request from the browser?

- A. GET
- B. PUT
- C. POST

- D. SEND
- E. FORM

Answer: A

www.TestNews.com Q: 62 Given an HttpSession session, a ServletRequest request, and a ServletContext context, which retrieves a URL to /WEB-INF/myconfig.xml within a web application?

- A. session.getResource("/WEB-INF/myconfig.xml")
- B. request.getResource("/WEB-INF/myconfig.xml")
- C. context.getResource("/WEB-INF/myconfig.xml")
- D. getClass().getResource("/WEB-INF/myconfig.xml")

Answer: C

www.TestNews.com Q: 63 Your company has a corporate policy that prohibits storing a customer's credit card number in any corporate database. However, users have complained that they do NOT want to re-enter their credit card number for each transaction. Your management has decided to use client-side cookies to record the user's credit card number for 120 days. Furthermore, they also want to protect this information during transit from the web browser to the web container; so the cookie must only be transmitted over HTTPS.

Which code snippet creates the "creditCard" cookie and adds it to the out going response to be stored on the user's web browser?

- A. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setSecure(true);
12. c.setAge(10368000);
13. response.addCookie(c);
- B. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setHttps(true);
12. c.setMaxAge(10368000);
13. response.setCookie(c);
- C. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setSecure(true);
12. c.setMaxAge(10368000);
13. response.addCookie(c);
- D. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setHttps(true);
12. c.setAge(10368000);
13. response.addCookie(c);
- E. 10. Cookie c = new Cookie("creditCard", usersCard);

- 11. c.setSecure(true);
- 12. c.setAge(10368000);
- 13. response.setCookie(c);

Answer: C

www.TestsNow.com Q: 64 Given a header in an HTTP request:

X-Retries: 4

Which two retrieve the value of the header from a given HttpServletRequest request? (Choose two.)

- A. request.getHeader("X-Retries")
- B. request.getIntHeader("X-Retries")
- C. request.getRequestHeader("X-Retries")
- D. request.getHeaders("X-Retries").get(0)
- E. request.getRequestHeaders("X-Retries").get(0)

Answer: A, B

www.TestsNow.com Q: 65 For a given ServletResponse response, which two retrieve an object for writing text data? (Choose two.)

- A. response.getWriter()
- B. response.getOutputStream()
- C. response.getWriter().getOutputStream()
- D. response.getWriter().getOutputStream()
- E. response.getWriter(Writer.OUTPUT_TEXT)

Answer: A, B

www.TestsNow.com Q: 66 Which JSP standard action can be used to import content from a resource called foo.jsp?

- A. <jsp:import file='foo.jsp' />
- B. <jsp:import page='foo.jsp' />
- C. <jsp:include page='foo.jsp' />
- D. <jsp:include file='foo.jsp' />
- E. <jsp:import>foo.jsp</jsp:import>
- F. <jsp:include>foo.jsp</jsp:include>

Answer: C

www.TestNews.com Q: 67 Click the Task button.

A servlet context listener loads a list of com.example.Product objects from a database and stores that list into the catalog attribute of the ServletContext object.

Place code snippets to construct a jsp:useBean standard action to access this catalog.

Drag and Drop

A servlet context listener loads a list of com.example.Product objects from a database and stores that list into the catalog attribute of the ServletContext object.

Place code snippets to construct a jsp:useBean standard action to access this catalog.

The jsp:useBean Standard Action

```
<jsp:useBean
```

Place here.

Place here.

Place here.

```
>
```

Code Snippets

id='product'	scope='application'
type='java.util.List'	id='catalog'
name='catalog'	scope='context'
scope='servletContext'	type='com.example.Product'

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 68 A session-scoped attribute is stored by a servlet, and then that servlet forwards to a JSP page. Which three `jsp:useBean` attributes must be used to access this attribute in the JSP page? (Choose three.)

- A. id
- B. name
- C. bean
- D. type
- E. scope
- F. beanName

Answer: A, D, E

www.TestNow's.com Q: 69 You need to create a `JavaBean` object that is used only within the current JSP page. It must NOT be accessible to any other page including those that this page might import. Which JSP standard action can accomplish this goal?

- A. `<jsp:useBean id='pageBean' type='com.example.MyBean' />`
- B. `<jsp:useBean id='pageBean' class='com.example.MyBean' />`
- C. `<jsp:makeBean id='pageBean' type='com.example.MyBean' />`
- D. `<jsp:makeBean id='pageBean' class='com.example.MyBean' />`
- E. `<jsp:useBean name='pageBean' class='com.example.MyBean' />`
- F. `<jsp:makeBean name='pageBean' class='com.example.MyBean' />`

Answer: B

www.TestNow's.com Q: 70 Given an `HttpServletRequest` request and `HttpServletResponse` response, which sets a cookie "username" with the value "joe" in a servlet?

- A. `request.addCookie("username", "joe")`
- B. `request.setCookie("username", "joe")`
- C. `response.addCookie("username", "joe")`
- D. `request.addHeader(new Cookie("username", "joe"))`
- E. `request.addCookie(new Cookie("username", "joe"))`
- F. `response.addCookie(new Cookie("username", "joe"))`
- G. `response.addHeader(new Cookie("username", "joe"))`

Answer: F

www.TestNow.com Q: 71 Your web page includes a Java SE v1.5 applet with the following declaration:

- 11. `<object classid='clsid:CAFEEFAC-0015-0000-0000-ABCDEFFEDCBA'`
- 12. `width='200' height='200'>`
- 13. `<param name='code' value='Applet.class' />`
- 14. `</object>`

Which HTTP method is used to retrieve the applet code?

- A. GET
- B. PUT
- C. POST
- D. RETRIEVE

Answer: A

www.TestNow.com Q: 72 You are creating a servlet that generates stock market graphs. You want to provide the web browser with precise information about the amount of data being sent in the response stream. Which two `HttpServletResponse` methods will you use to provide this information? (Choose two.)

- A. `response.setLength(numberOfBytes);`
- B. `response.setContentLength(numberOfBytes);`
- C. `response.setHeader("Length", numberOfBytes);`
- D. `response.setIntHeader("Length", numberOfBytes);`
- E. `response.setHeader("Content-Length", numberOfBytes);`
- F. `response.setIntHeader("Content-Length", numberOfBytes);`

Answer: B, F

www.TestNow.com Q: 73 You need to retrieve the username cookie from an HTTP request. If this cookie does NOT exist, then the `c` variable will be null. Which code snippet must be used to retrieve this cookie object?

- A. `10. Cookie c = request.getCookie("username");`
- B. `10. Cookie c = null;`

```

11. for ( Iterator i = request.getCookies();
12.     i.hasNext(); ) {
13.     Cookie o = (Cookie) i.next();
14.     if ( o.getName().equals("username") ) {
15.         c = o;
16.         break;
17.     }
18. }
C. 10. Cookie c = null;
11. for ( Enumeration e = request.getCookies();
12.     e.hasMoreElements(); ) {
13.     Cookie o = (Cookie) e.nextElement();
14.     if ( o.getName().equals("username") ) {
15.         c = o;
16.         break;
17.     }
18. }
D. 10. Cookie c = null;
11. Cookie[] cookies = request.getCookies();
12. for ( int i = 0; i < cookies.length; i++ ) {
13.     if ( cookies[i].getName().equals("username") ) {
14.         c = cookies[i];
15.         break;
16.     }
17. }

```

Answer: D

www.TestNow.com Q: 74 Given:

```

10. public void service(ServletRequest request,
11.     ServletResponse response) {
12.     ServletInputStream sis =
13.         // insert code here
14. }

```

Which retrieves the binary input stream on line 13?

- A. request.getWriter();
- B. request.getReader();
- C. request.getInputStream();
- D. request.getResourceAsStream();
- E. request.getResourceAsStream(ServletRequest.REQUEST);

Answer: C

www.TestNews.com Q: 75 Click the Exhibit button.

As a maintenance feature, you have created this servlet to allow you to upload and remove files on your web server. Unfortunately, while testing this servlet, you try to upload a file using an HTTP request and on this servlet, the web container returns a 404 status.

What is wrong with this servlet?

```
1. package com.example;
2.
3. import javax.servlet.http.*;
4.
5. public class MyWebDAV extends HttpServlet
{
6.     private String resourceDirectory;
7.
8.     public MyWebDAV(String resDir) {
9.         this.resourceDirectory = resDir;
10.    }
11.    public void doPut(HttpServletRequest
req,
12.                      HttpServletResponse
resp) {
13.        // store file to resourceDirectory
(code not shown)
20.    }
21.    public void doDelete(HttpServletRequest
req,
22.                          HttpServletResponse resp) {
23.        // remove file from resourceDirectory
(code not shown)
30.    }
31. }
```

- A. HTTP does NOT support file upload operations.
- B. The servlet constructor must NOT have any parameters.
- C. The servlet needs a service method to dispatch the requests to the helper methods.

D. The doPut and doDelete methods do NOT map to the proper HTTP methods.

Answer: B

www.TestsNow.com Q: 76 You have built a web application with tight security. Several directories of your webapp are used for internal purposes and you have overridden the default servlet to send an HTTP 403 status code for any request that maps to one of these directories. During testing, the Quality Assurance director decided that they did NOT like seeing the bare response page generated by Firefox and Internet Explorer. The director recommended that the webapp should return a more user-friendly web page that has the same look-and-feel as the webapp plus links to the webapp's search engine. You have created this JSP page in the /WEB-INF/jsp/error403.jsp file. You do NOT want to alter the complex logic of the default servlet. How can you declare that the web container must send this JSP page whenever a 403 status is generated?

- A. `<error-page>`
`<error-code>403</error-code>`
`<url>/WEB-INF/jsp/error403.jsp</url>`
`</error-page>`
- B. `<error-page>`
`<status-code>403</status-code>`
`<url>/WEB-INF/jsp/error403.jsp</url>`
`</error-page>`
- C. `<error-page>`
`<error-code>403</error-code>`
`<location>/WEB-INF/jsp/error403.jsp</location>`
`</error-page>`
- D. `<error-page>`
`<status-code>403</status-code>`
`<location>/WEB-INF/jsp/error403.jsp</location>`
`</error-page>`

Answer: C

www.TestsNow.com Q: 77 You want to create a valid directory structure for your Java EE web application, and your application uses tag files and a JAR file. Which three must be located directly in your WEB-INF directory (NOT in a subdirectory of WEB-INF)? (Choose three.)

- A. The JAR file
- B. A directory called lib
- C. A directory called tags
- D. A directory called TLDs
- E. A directory called classes

F. A directory called META-INF

Answer: B, C, E

www.TestNow.com Q: 78 Given:

```
11. public class MyServlet extends HttpServlet {  
12.     public void service(HttpServletRequest request,  
13.         HttpServletResponse response)  
14.         throws ServletException, IOException {  
15.     // insert code here  
16. }  
17. }
```

and this element in the web application's deployment descriptor:

```
<error-page>  
<error-code>302</error-code>  
<location>/html/error.html</location>  
</error-page>
```

Which, inserted at line 15, causes the container to redirect control to the error.html resource?

- A. response.setError(302);
- B. response.sendError(302);
- C. response.setStatus(302);
- D. response.sendRedirect(302);
- E. response.sendErrorRedirect(302);

Answer: B

www.TestNow.com Q: 79 Which element of the web application deployment descriptor defines the servlet class associated with a servlet instance?

- A. <class>
- B. <webapp>
- C. <servlet>
- D. <codebase>
- E. <servlet-class>
- F. <servlet-mapping>

Answer: E

www.TestNow.com Q: 80 Within the web application deployment descriptor, which defines a valid JNDI environment entry?

- A. `<env-entry>`
`<env-entry-type>java.lang.Boolean</env-entry-type>`
`<env-entry-value>true</env-entry-value>`
`</env-entry>`
- B. `<env-entry>`
`<env-entry-name>param/MyExampleString</env-entry-name>`
`<env-entry-value>This is an Example</env-entry-value>`
`</env-entry>`
- C. `<env-entry>`
`<env-entry-name>param/MyExampleString</env-entry-name>`
`<env-entry-type>int</env-entry-type>`
`<env-entry-value>10</env-entry-value>`
`</env-entry>`
- D. `<env-entry>`
`<env-entry-name>param/MyExampleString</env-entry-name>`
`<env-entry-type>java.lang.String</env-entry-type>`
`<env-entry-value>This is an Example</env-entry-value>`
`</env-entry>`

Answer: D

www.TestNow.com Q: 81 Which three are described in the standard web application deployment descriptor? (Choose three.)

- A. session configuration
- B. MIME type mappings
- C. context root for the application
- D. servlet instance pool configuration
- E. web container default port bindings
- F. ServletContext initialization parameters

Answer: A, B, F

www.TestNow.com Q: 82 Which two are true regarding a web application class loader? (Choose two.)

- A. A web application may override the web container's implementation classes.

- B. A web application running in a J2EE product may override classes in the javax.* namespace.
- C. A web application class loader may NOT override any classes in the java.* and javax.* namespaces.
- D. Resources in the WAR class directory or in any of the JAR files within the library directory may be accessed using the J2SE semantics of getResource.
- E. Resources in the WAR class directory or in any of the JAR files within the library directory CANNOT be accessed using the J2SE semantics of getResource.

Answer: C, D

www.TestNow.com Q: 83 Click the Task button.

Place the corresponding resources and directories in the proper web application deployment structure.

Drag and Drop

Place the corresponding resources and directories in the proper web application deployment structure.

Web Application Structure	Resources and Directories
<pre> graph LR Root["/"] --- D1["Place here."] Root --- D2["Place here."] Root --- Main[" "] Main --- D3["Place here."] Main --- D4["Place here."] Main --- D5["Place here."] Main --- D6["Place here."] Main --- D7["Place here."] </pre>	<div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">Java and Servlet Classes</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">JAR files</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">classes</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">JSP files Static content</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">lib</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">web.xml</div> <div style="border: 1px solid black; background-color: #00FFFF; padding: 5px; margin-bottom: 5px;">WEB-INF</div> <div style="border: 1px solid black; background-color: #d3d3d3; padding: 5px; margin-top: 10px; width: fit-content; margin-left: auto;">Done</div>

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 84 You are building JSP pages that have a set of menus that are visible based on a user's security role. These menus are hand-crafted by your web design team; for example, the SalesManager role has a menu in the file /WEB-INF/html/sales-mgr-menu.html. Which JSP code snippet should be used to make this menu visible to the user?

- A. `<% if (request.isUserInRole("SalesManager")) { %>
<% @ include file="/WEB-INF/html/sales-mgr-menu.html" %>
<% } %>`
- B. `<jsp:if test='request.isUserInRole("SalesManager")'>
<% @ include file="/WEB-INF/html/sales-mgr-menu.html" %>
</jsp:if>`
- C. `<% if (request.isUserInRole("SalesManager")) { %>
<jsp:include file="/WEB-INF/html/sales-mgr-menu.html" />
<% } %>`
- D. `<jsp:if test='request.isUserInRole("SalesManager")'>
<jsp:include file="/WEB-INF/html/sales-mgr-menu.html" />
</jsp:if>`

Answer: A

www.TestNow's.com Q: 85 For debugging purposes, you need to record how many times a given JSP is invoked before the user's session has been created. The JSP's destroy method stores this information to a database. Which JSP code snippet keeps track of this count for the lifetime of the JSP page?

- A. `<%! int count = 0; %>
<% if (request.getSession(false) == null) count++; %>`
- B. `<%@ int count = 0; %>
<% if (request.getSession(false) == null) count++; %>`
- C. `<% int count = 0;
if (request.getSession(false) == null) count++; %>`
- D. `<%@ int count = 0;
if (request.getSession(false) == null) count++; %>`
- E. `<%! int count = 0;
if (request.getSession(false) == null) count++; %>`

Answer: A

www.TestNow's.com Q: 86 For manageability purposes, you have been told to add a "count" instance variable to a critical JSP Document so that a JMX MBean can track how frequent this JSP is being invoked. Which JSP code snippet must you use to declare this instance variable in the JSP Document?

- A. `<jsp:declaration>`
`int count = 0;`
`<jsp:declaration>`
- B. `<%! int count = 0; %>`
- C. `<jsp:declaration.instance>`
`int count = 0;`
`<jsp:declaration.instance>`
- D. `<jsp:scriptlet.declaration>`
`int count = 0;`
`<jsp:scriptlet.declaration>`

Answer: A

www.TestNow.com Q: 87 In a JSP-centric web application, you need to create a catalog browsing JSP page. The catalog is stored as a List object in the catalog attribute of the webapp's ServletContext object. Which scriptlet code snippet gives you access to the catalog object?

- A. `<% List catalog = config.getAttribute("catalog"); %>`
- B. `<% List catalog = context.getAttribute("catalog"); %>`
- C. `<% List catalog = application.getAttribute("catalog"); %>`
- D. `<% List catalog = servletContext.getAttribute("catalog"); %>`

Answer: C

www.TestNow.com Q: 88 Given the element from the web application deployment descriptor:

```
<jsp-property-group>  
  <url-pattern>/main/page1.jsp</url-pattern>  
  <scripting-invalid>true</scripting-invalid>  
</jsp-property-group>
```

and given that /main/page1.jsp contains:

```
<% int i = 12; %>  
<b><%= i %></b>
```

What is the result?

- A. ``
- B. `12`

- C. The JSP fails to execute.
- D. `<% int i = 12 %>`
`<%= i %>`

Answer: C

www.TestNow.com Q: 89 You are creating a new JSP page and you need to execute some code that acts when the page is first executed, but only once. Which three are possible mechanisms for performing this initialization code? (Choose three.)

- A. In the init method.
- B. In the jspInit method.
- C. In the constructor of the JSP's Java code.
- D. In a JSP declaration, which includes an initializer block.
- E. In a JSP declaration, which includes a static initializer block.

Answer: B, D, E

www.TestNow.com Q: 90 You are writing a JSP that includes scriptlet code to declare a List variable and initializes that variable to an ArrayList object. Which two JSP code snippets can you use to import these list types? (Choose two.)

- A. `<%! import java.util.*; %>`
- B. `<%! import java.util.List;`
`import java.util.ArrayList; %>`
- C. `<%@ page import='java.util.List'`
`import='java.util.ArrayList' %>`
- D. `<%@ import types='java.util.List'`
`types='java.util.ArrayList' %>`
- E. `<%@ page import='java.util.List,java.util.ArrayList' %>`
- F. `<%@ import types='java.util.List,java.util.ArrayList' %>`

Answer: C, E

www.TestNow.com Q: 91 Assume the custom tag `my:errorProne` always throws a `java.lang.RuntimeException` with the message "File not found."

An error page has been configured for this JSP page.

Which option prevents the exception thrown by `my:errorProne` from invoking the error page mechanism, and outputs the message "File not found" in the response?

A. `<c:try catch="ex">`
`<my:errorProne />`
`</c:try>`
`${ex.message}`

B. `<c:catch var="ex">`
`<my:errorProne />`
`</c:catch>`
`${ex.message}`

C. `<c:try>`
`<my:errorProne />`
`</c:try>`
`<c:catch var="ex" />`
`${ex.message}`

D. `<c:try>`
`<my:errorProne />`
`<c:catch var="ex" />`
`${ex.message}`
`</c:try>`

E. `<my:errorProne>`
`<c:catch var="ex">`
`${ex.message}`
`</c:catch>`
`</my:errorProne>`

Answer: B

www.TestsNow.com Q: 92 A JSP page contains a taglib directive whose uri attribute has the value dbtags. Which XML element within the web application deployment descriptor defines the associated TLD?

A. `<tld>`
`<uri>dbtags</uri>`
`<location>/WEB-INF/tlds/dbtags.tld</location>`
`</tld>`

B. `<taglib>`
`<uri>dbtags</uri>`
`<location>/WEB-INF/tlds/dbtags.tld</location>`
`</taglib>`

C. `<tld>`
`<tld-uri>dbtags</tld-uri>`
`<tld-location>/WEB-INF/tlds/dbtags.tld</tld-location>`
`</tld>`

D. <taglib>
<taglib-uri>dbtags</taglib-uri>
<taglib-location>
/WEB-INF/tlds/dbtags.tld
</taglib-location>
</taglib>

Answer: D

www.TestsNow.com Q: 93 Assume that a news tag library contains the tags lookup and item:

lookup Retrieves the latest news headlines and executes the tag body once for each headline. Exposes a NESTED page-scoped attribute called headline of type com.example.Headline containing details for that headline.

item Outputs the HTML for a single news headline. Accepts an attribute info of type com.example.Headline containing details for the headline to be rendered. Which snippet of JSP code returns the latest news headlines in an HTML table, one per row?

A. <table>
<tr>
<td>
<news:lookup />
<news:item info="{headline}" />
</td>
</tr>
</table>
B. <news:lookup />
<table>
<tr>
<td><news:item info="{headline}" /></td>
</tr>
</table>
C. <table>
<news:lookup>
<tr>
<td><news:item info="{headline}" /></td>
</tr>
</news:lookup>
</table>
D. <table>
<tr>
<news:lookup>
<td><news:item info="{headline}" /></td>


```
</news:lookup>  
</tr>  
</table>
```

Answer: C

www.TestNews.com Q: 94 Click the Exhibit button.

Assuming the tag library in the exhibit is imported with the prefix stock, which custom tag invocation outputs the contents of the variable exposed by the quote tag?

```

1. <?xml version="1.0" encoding="UTF-8" ?>
2.
3. <taglib
xmlns="http://java.sun.com/xml/ns/j2ee"
4.   xmlns:xsi="http://www.w3.org/2001/XMLSchema
a-instance"
5.   xsi:schemaLocation="http://java.sun.com/xml
l/ns/j2ee web-jsptaglibrary_2_0.xsd"
6.   version="2.0">
7.   <tlib-version>1.0</tlib-version>
8.   <short-name>stock</short-name>
9.   <uri>http://example.com/tld/stock</uri>
10.  <tag>
11.    <name>quote</name>
12.
<tag-class>com.example.QuoteTag</tag-class>
13.    <body-content>empty</body-content>
14.    <variable>
15.      <name-from-attribute>var</name-from-att
ute>
16.      <scope>AT_BEGIN</scope>
17.    </variable>
18.    <attribute>
19.      <name>symbol</name>
20.      <required>true</required>
21.      <rtexprvalue>true</rtexprvalue>
22.    </attribute>
23.    <attribute>
24.      <name>var</name>
25.      <required>true</required>
26.      <rtexprvalue>false</rtexprvalue>
27.    </attribute>
28.  </tag>
29. </taglib>

```

- A. <stock:quote symbol="SUNW" />
\${var}
- B. \${var}
<stock:quote symbol="SUNW" />
- C. <stock:quote symbol="SUNW">
\${var}
</stock:quote>
- D. <stock:quote symbol="SUNW" var="quote" />

`${quote}`

E. `<stock:quote symbol="SUNW" var="quote">`

`<%= quote %>`

`</stock:quote>`

Answer: D

www.TestNow.com Q: 95 Which two are true about the JSTL core iteration custom tags? (Choose two.)

A. It may iterate over arrays, collections, maps, and strings.

B. The body of the tag may contain EL code, but not scripting code.

C. When looping over collections, a loop status object may be used in the tag body.

D. It may iterate over a map, but only the key of the mapping may be used in the tag body.

E. When looping over integers (for example `begin='1' end='10'`), a loop status object may not be used in the tag body.

Answer: A, C

www.TestNow.com Q: 96 Assume a JavaBean `com.example.GradedTestBean` exists and has two attributes. The attribute name is of type `java.lang.String` and the attribute score is of type `java.lang.Integer`.

An array of `com.example.GradedTestBean` objects is exposed to the page in a request-scoped attribute called `results`. Additionally, an empty `java.util.HashMap` called `resultMap` is placed in the page scope.

A JSP page needs to add the first entry in `results` to `resultMap`, storing the name attribute of the bean as the key and the score attribute of the bean as the value.

Which code snippet of JSTL code satisfies this requirement?

A. `${resultMap[results[0].name] = results[0].score}`

B. `<c:set var="${resultMap}" key="${results[0].name}" value="${results[0].score}" />`

C. `<c:set var="resultMap" property="${results[0].name}">`
`${results[0].value}`
`</c:set>`

D. `<c:set var="resultMap" property="${results[0].name}" value="${results[0].score}" />`

E. `<c:set target="${resultMap}" property="${results[0].name}" value="${results[0].score}" />`

Answer: E

www.TestsNow.com Q: 97 You are creating a JSP page to display a collection of data. This data can be displayed in several different ways so the architect on your project decided to create a generic servlet that generates a comma-delimited string so that various pages can render the data in different ways. This servlet takes on request parameter: **objectID**. Assume that this servlet is mapped to the URL pattern: **/WEB-INF/data**.

In the JSP you are creating, you need to split this string into its elements separated by commas and generate an HTML **** list from the data.

Which JSTL code snippet will accomplish this goal?

A. `<c:import varReader='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forEach items='${dataString.split(",")}' var='item'>`
`${item}`
`</c:forEach>`
``

B. `<c:import varReader='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forEach items='${dataString}' delims=',' var='item'>`
`${item}`
`</c:forEach>`
``

C. `<c:import var='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forEach items='${dataString.split(",")}' var='item'>`
`${item}`
`</c:forEach>`
``

D. `<c:import var='dataString' url='/WEB-INF/data'>`
`<c:param name='objectID' value='${currentOID}' />`
`</c:import>`
``
`<c:forEach items='${dataString}' delims=',' var='item'>`
`${item}`
`</c:forEach>`

Answer: D

www.TestNews.com Q: 98 A web application contains a tag file called beta.tag in /WEB-INF/tags/alpha. A JSP page called sort.jsp exists in the web application and contains only this JSP code:

1. <%@ taglib prefix="x"
2. tagdir="/WEB-INF/tags/alpha" %>
3. <x:beta />

The sort.jsp page is requested.

Which two are true? (Choose two.)

- A. Tag files can only be accessed using a tagdir attribute.
- B. The sort.jsp page translates successfully and invokes the tag defined by beta.tag.
- C. The sort.jsp page produces a translation error because a taglib directive must always have a uri attribute.
- D. Tag files can only be placed in /WEB-INF/tags, and NOT in any subdirectories of /WEB-INF/tags.
- E. The tagdir attribute in line 2 can be replaced by a uri attribute if a TLD referring to beta.tag is created and added to the web application.
- F. The sort.jsp page produces a translation error because the tagdir attribute on lines 1-2 specifies a directory other than /WEB-INF/tags, which is illegal.

Answer: B, E

www.TestNews.com Q: 99 What is the purpose of session management?

- A. To manage the user's login and logout activities.
- B. To store information on the client-side between HTTP requests.
- C. To store information on the server-side between HTTP requests.
- D. To tell the web container to keep the HTTP connection alive so it can make subsequent requests without the delay of making the TCP connection.

Answer: C

www.TestNews.com Q: 100 The Squeaky Beans Inc. shopping application was initially developed for a non-distributed environment. The company recently purchased the Acme Application Server, which supports distributed HttpSession objects. When deploying the application to the server, the deployer marks it as distributable in the web application deployment descriptor to take advantage of this feature.

Given this scenario, which two must be true? (Choose two.)

- A. The J2EE web container must support migration of objects that implement Serializable.
- B. The J2EE web container must use the native JVM Serialization mechanism for distributing HttpSession objects.
- C. As per the specification, the J2EE web container ensures that distributed HttpSession objects will be stored in a database.
- D. Storing references to Enterprise JavaBeans components in the HttpSession object might NOT be supported by J2EE web containers.

Answer: A, D

www.TestNow.com Q: 101 In your web application, you need to execute a block of code whenever the session object is first created. Which design will accomplish this goal?

- A. Create an HttpSessionListener class and implement the sessionInitialized method with that block of code.
- B. Create an HttpSessionActivationListener class and implement the sessionCreated method with that block of code.
- C. Create a Filter class, call the getSession(false) method, and if the result was null, then execute that block of code.
- D. Create an HttpSessionListener class and implement the sessionCreated method with that block of code.
- E. Create a Filter class, call the getSession(true) method, and if the result was NOT null, then execute that block of code.

Answer: D

www.TestNow.com Q: 102 Which interface must a class implement so that instances of the class are notified after any object is added to a session?

- A. javax.servlet.http.HttpSessionListener
- B. javax.servlet.http.HttpSessionValueListener
- C. javax.servlet.http.HttpSessionBindingListener
- D. javax.servlet.http.HttpSessionAttributeListener

Answer: D

www.TestNow.com Q: 103 Which method must be used to encode a URL passed as an argument to HttpServletResponse.sendRedirect when using URL rewriting for session tracking?

- A. `ServletResponse.encodeURL`
- B. `HttpServletResponse.encodeURL`
- C. `ServletResponse.encodeRedirectURL`
- D. `HttpServletResponse.encodeRedirectURL`

Answer: D

www.TestNow.com Q: 104 Users of your web application have requested that they should be able to set the duration of their sessions. So for example, one user might want a webapp to stay connected for an hour rather than the webapp's default of fifteen minutes; another user might want to stay connected for a whole day.

Furthermore, you have a special login servlet that performs user authentication and retrieves the User object from the database. You want to augment this code to set up the user's specified session duration.

Which code snippet in the login servlet will accomplish this goal?

- A. `User user = // retrieve the User object from the database
session.setDurationInterval(user.getSessionDuration());`
- B. `User user = // retrieve the User object from the database
session.setMaxDuration(user.getSessionDuration());`
- C. `User user = // retrieve the User object from the database
session.setInactiveInterval(user.getSessionDuration());`
- D. `User user = // retrieve the User object from the database
session.setDuration(user.getSessionDuration());`
- E. `User user = // retrieve the User object from the database
session.setMaxInactiveInterval(user.getSessionDuration());`
- F. `User user = // retrieve the User object from the database
session.setMaxDurationInterval(user.getSessionDuration());`

Answer: E

www.TestNow.com Q: 105 Which two classes or interfaces provide a `getSession` method? (Choose two.)

- A. `javax.servlet.http.HttpServletRequest`
- B. `javax.servlet.http.HttpSessionContext`
- C. `javax.servlet.http.HttpServletResponse`
- D. `javax.servlet.http.HttpSessionBindingEvent`
- E. `javax.servlet.http.HttpSessionAttributeEvent`

Answer: A, D

www.TestNow.com Q: 106 Given the security constraint in a DD:

- 101. <security-constraint>
- 102. <web-resource-collection>
- 103. <web-resource-name>Foo</web-resource-name>
- 104. <url-pattern>/Bar/Baz/*</url-pattern>
- 105. <http-method>POST</http-method>
- 106. </web-resource-collection>
- 107. <auth-constraint>
- 108. <role-name>DEVELOPER</role-name>
- 109. </auth-constraint>
- 110. </security-constraint>

And given that "MANAGER" is a valid role-name, which four are true for this security constraint?
(Choose four.)

- A. MANAGER can do a GET on resources in the /Bar/Baz directory.
- B. MANAGER can do a POST on any resource in the /Bar/Baz directory.
- C. MANAGER can do a TRACE on any resource in the /Bar/Baz directory.
- D. DEVELOPER can do a GET on resources in the /Bar/Baz directory.
- E. DEVELOPER can do only a POST on resources in the /Bar/Baz directory.
- F. DEVELOPER can do a TRACE on any resource in the /Bar/Baz directory.

Answer: A, C, D, F

www.TestNow.com Q: 107 Which activity supports the data integrity requirements of an application?

- A. using HTTPS as a protocol
- B. using an LDAP security realm
- C. using HTTP Basic authentication
- D. using forms-based authentication

Answer: A

www.TestNow.com Q: 108 Which mechanism requires the client to provide its public key certificate?

- A. HTTP Basic Authentication
- B. Form Based Authentication

- C. HTTP Digest Authentication
- D. HTTPS Client Authentication

Answer: D

www.TestNow.com Q: 109 Given the two security constraints in a deployment descriptor:

- 101. <security-constraint>
- 102. <!--a correct url-pattern and http-method goes here-->
- 103. <auth-constraint><role-name>SALES</role-name></auth-
- 103. <auth-constraint>
- 104. <role-name>SALES</role-name>
- 105. </auth-constraint>
- 106. </security-constraint>
- 107. <security-constraint>
- 108. <!--a correct url-pattern and http-method goes here-->
- 109. <!-- Insert an auth-constraint here -->
- 110. </security-constraint>

If the two security constraints have the same url-pattern and http-method, which two, inserted independently at line 109, will allow users with role names of either SALES or MARKETING to access this resource? (Choose two.)

- A. <auth-constraint/>
- B. <auth-constraint>
<role-name>*</role-name>
</auth-constraint>
- C. <auth-constraint>
<role-name>ANY</role-name>
</auth-constraint>
- D. <auth-constraint>
<role-name>MARKETING</role-name>
</auth-constraint>

Answer: B, D

www.TestNow.com Q: 110 Given this fragment in a servlet:

- 23. if(req.isUserInRole("Admin")) {
- 24. // do stuff
- 25. }

And the following fragment from the related Java EE deployment descriptor:

812. <security-role-ref>
 813. <role-name>Admin</role-name>
 814. <role-link>Administrator</role-link>
 815. </security-role-ref>

900. <security-role>
 901. <role-name>Admin</role-name>
 902. <role-name>Administrator</role-name>
 903. </security-role>

What is the result?

- A. Line 24 can never be reached.
- B. The deployment descriptor is NOT valid.
- C. If line 24 executes, the user's role will be Admin.
- D. If line 24 executes, the user's role will be Administrator.
- E. If line 24 executes the user's role will NOT be predictable.

Answer: D

www.TestNews.com Q: 111 Which two are true about authentication? (Choose two.)

- A. Form-based logins should NOT be used with HTTPS.
- B. When using Basic Authentication the target server is NOT authenticated.
- C. J2EE compliant web containers are NOT required to support the HTTPS protocol.
- D. Web containers are required to support unauthenticated access to unprotected web resources.
- E. Form-based logins should NOT be used when sessions are maintained by cookies or SSL session information.

Answer: B, D

www.TestNews.com Q: 112 Given:

```
11. <%
12. request.setAttribute("vals", new String[]{"1","2","3","4"});
13. request.setAttribute("index", "2");
14. %>
15. <%-- insert code here --%>
```

Which three EL expressions, inserted at line 15, are valid and evaluate to "3"? (Choose three.)

- A. `${vals.2}`
- B. `${vals["2"]}`
- C. `${vals.index}`
- D. `${vals[index]}`
- E. `${vals}[index]`
- F. `${vals.(vals.index)}`
- G. `${vals[vals[index-1]]}`

Answer: B, D, G

www.TestNews.com Q: 113 Given:

11. `<% java.util.Map map = new java.util.HashMap();`
12. `request.setAttribute("map", map);`
13. `map.put("a", "true");`
14. `map.put("b", "false");`
15. `map.put("c", "42"); %>`

Which three EL expressions are valid and evaluate to true? (Choose three.)

- A. `${not map.c}`
- B. `${map.d or map.a}`
- C. `${map.a and map.d}`
- D. `${map.false or map.true}`
- E. `${map.a and map.b or map.a}`
- F. `${map['true'] or map['false']}`

Answer: A, B, E

www.TestNews.com Q: 114 Given:

`http://com.example/myServlet.jsp?num=one&num=two&num=three`

Which two produce the output "one, two and three"? (Choose two.)

- A. `${param.num[0],[1] and [2]}`
- B. `${paramValues[0],[1] and [2]}`
- C. `${param.num[0]}, ${param.num[1]} and ${param.num[2]}`
- D. `${paramValues.num[0]}, ${paramValues.num[1]} and ${paramValues.num[2]}`
- E. `${paramValues["num"][0]}, ${paramValues["num"][1]} and ${paramValues["num"][2]}`
- F. `${parameterValues.num[0]}, ${parameterValues.num[1]} and ${parameterValues.num[2]}`

G. `${parameterValues["num"]["0"]}`, `${parameterValues["num"]["1"]}` and `${parameterValues["num"]["2"]}`

Answer: D, E

www.TestNow.com Q: 115 Given a web application in which the cookie `userName` is expected to contain the name of the user. Which EL expression evaluates to that user name?

- A. `${userName}`
- B. `${cookie.userName}`
- C. `${cookie.user.name}`
- D. `${cookies.userName[0]}`
- E. `${cookies.userName}[1]`
- F. `${cookies.get('userName')}`

Answer: B

www.TestNow.com Q: 116 Given an EL function declared with:

- 11. `<function>`
- 12. `<name>spin</name>`
- 13. `<function-class>com.example.Spinner</function-class>`
- 14. `<function-signature>`
- 15. `java.lang.String spinIt()`
- 16. `</function-signature>`
- 17. `</function>`

Which two are true? (Choose two.)

- A. The function method must have the signature:
`public String spin()`.
- B. The method must be mapped to the logical name "spin" in the web.xml file.
- C. The function method must have the signature:
`public String spinIt()`.
- D. The function method must have the signature
`public static String spin()`.
- E. The function method must have the signature:
`public static String spinIt()`.
- F. The function class must be named `Spinner`, and must be in the package `com.example`.

Answer: E, F

www.TestNews.com Q: 117 Given a JSP page:

11. <n:recurse>
12. <n:recurse>
13. <n:recurse>
14. <n:recurse />
15. </n:recurse>
16. </n:recurse>
17. </n:recurse>

The tag handler for n:recurse extends SimpleTagSupport.

Assuming an n:recurse tag can either contain an empty body or another n:recurse tag, which strategy allows the tag handler for n:recurse to output the nesting depth of the deepest n:recurse tag?

- A. It is impossible to determine the deepest nesting depth because it is impossible for tag handlers that extend SimpleTagSupport to communicate with their parent and child tags.
- B. Create a private non-static attribute in the tag handler class called count of type int initialized to 0. Increment count in the doTag method. If the tag has a body, invoke the fragment for that body. Otherwise, output the value of count.
- C. Start a counter at 1. Call getChildTags(). If it returns null, output the value of the counter. Otherwise, increment counter and continue from where getChildTags() is called. Skip processing of the body.
- D. If the tag has a body, invoke the fragment for that body. Otherwise, start a counter at 1. Call getParent(). If it returns null, output the value of the counter. Otherwise, increment the counter and continue from where getParent() is called.

Answer: D

www.TestNews.com Q: 118 Click the Exhibit button.

The h:highlight tag renders its body, highlighting an arbitrary number of words, each of which is passed as an attribute (word1, word2, ...). For example, a JSP page can invoke the h:highlight tag as follows:

11. <h:highlight color="yellow" word1="high" word2="low">
12. high medium low
13. </h:highlight>

Given that HighlightTag extends SimpleTagSupport, which three steps are necessary to implement the tag handler for the highlight tag? (Choose three).

```

1. <?xml version="1.0" encoding="UTF-8" ?>
2.
3. <taglib
xmlns="http://java.sun.com/xml/ns/j2ee"
4.   xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
5.   xsi:schemaLocation="http://java.sun.com/xml
1/ns/j2ee web-jsptaglibrary_2_0.xsd"
6.   version="2.0">
7.   <tlib-version>1.0</tlib-version>
8.   <short-name>h</short-name>
9.
<uri>http://example.com/tld/highlight</uri>
10.   <tag>
11.     <name>highlight</name>
12.     <tag-class>com.example.HighlightTag</tag-
lass>
13.
<body-content>scriptless</body-content>
14.     <attribute>
15.       <name>color</name>
16.       <required>true</required>
17.     </attribute>
18.
<dynamic-attributes>true</dynamic-attributes>
19.   </tag>
20. </taglib>

```

- A. add a doTag method
- B. add a doStartTag method
- C. add a getter and setter for the color attribute
- D. create and implement a TagExtraInfo class
- E. implement the DynamicAttributes interface
- F. add a getter and setter for the word1 and word2 attributes

Answer: A, C, E

www.TestNows.com Q: 119 Given:

```

5. public class MyTagHandler extends TagSupport {
6.   public int doStartTag() throws JspException {

```

```

7.  try {
8.    // insert code here
9.  } catch(Exception ex) { /* handle exception */ }
10. return super.doStartTag();
11. }
...
42. }

```

Which code snippet, inserted at line 8, causes the value foo to be output?

- A. JspWriter w = pageContext.getOut();
w.print("foo");
- B. JspWriter w = pageContext.getWriter();
w.print("foo");
- C. JspWriter w = new JspWriter(pageContext.getWriter());
w.print("foo");
- D. JspWriter w = new JspWriter(pageContext.getResponse());
w.print("foo");

Answer: A

www.TestNow.com Q: 120 Given:

```

6. <myTag:foo bar='42'>
7.  <%= "processing" %>
8. </myTag:foo>

```

and a custom tag handler for foo which extends TagSupport.

Which two are true about the tag handler referenced by foo? (Choose two.)

- A. The doStartTag method is called once.
- B. The doAfterBody method is NOT called.
- C. The EVAL_PAGE constant is a valid return value for the doEndTag method.
- D. The SKIP_PAGE constant is a valid return value for the doStartTag method.
- E. The EVAL_BODY_BUFFERED constant is a valid return value for the doStartTag method.

Answer: A, C

www.TestNow.com Q: 121 Which three are valid values for the body-content attribute of a tag directive in a tag file? (Choose three.)

- A. EL
- B. JSP
- C. empty
- D. dynamic
- E. scriptless
- F. tagdependent

Answer: C, E, F

www.TestNow.com Q: 122 The Squeaky Bean company has decided to port their web application to a new J2EE 1.4 container. While reviewing the application, a developer realizes that in multiple places within the current application, nearly duplicate code exists that finds enterprise beans. Which pattern should be used to eliminate this duplicate code?

- A. Transfer Object
- B. Front Controller
- C. Service Locator
- D. Intercepting Filter
- E. Business Delegate
- F. Model-View-Controller

Answer: C

www.TestNow.com Q: 123 A developer is designing a web application that makes many fine-grained remote data requests for each client request. During testing, the developer discovers that the volume of remote requests significantly degrades performance of the application. Which design pattern provides a solution for this problem?

- A. Flyweight
- B. Transfer Object
- C. Service Locator
- D. Dispatcher View
- E. Business Delegate
- F. Model-View-Controller

Answer: B

www.TestNow.com Q: 124 In an n-tier application, which two invocations are typically remote, not local? (Choose two.)

- A. JSP to Transfer Object
- B. Service Locator to JNDI
- C. Controller to request object
- D. Transfer Object to Entity Bean
- E. Controller to Business Delegate
- F. Business Delegate to Service Locator

Answer: B, D

www.TestNews.com Q: 125 A developer has created a special servlet that is responsible for generating XML content that is sent to a data warehousing subsystem. This subsystem uses HTTP to request these large data files, which are compressed by the servlet to save internal network bandwidth. The developer has received a request from management to create several more of these data warehousing servlets. The developer is about to copy and paste the compression code into each new servlet. Which design pattern can consolidate this compression code to be used by all of the data warehousing servlets?

- A. Facade
- B. View Helper
- C. Transfer Object
- D. Intercepting Filter
- E. Composite Facade

Answer: D

www.TestNews.com Q: 126 A developer is designing the presentation tier for a web application which requires a centralized request handling to complete common processing required by each request. Which design pattern provides a solution to this problem?

- A. Remote Proxy
- B. Front Controller
- C. Service Activator
- D. Intercepting Filter
- E. Business Delegate
- F. Data Access Object

Answer: B

www.TestNews.com Q: 127 You are designing an n-tier Java EE application. You have already decided that some of your JSPs will need to get data from a Customer entity bean. You are trying to decide whether to use a Customer stub object or a Transfer Object. Which two statements are true? (Choose two.)

- A. The stub will increase network traffic.
- B. The Transfer Object will decrease data staleness.
- C. The stub will increase the logic necessary in the JSPs.
- D. In both cases, the JSPs can use EL expressions to get data.
- E. Only the Transfer Object will need to use a Business Delegate.
- F. Using the stub approach allows you to design the application without using a Service Locator.

Answer: A, D

www.TestNews.com Q: 128 You have a simple web application that has a single Front Controller servlet that dispatches to JSPs to generate a variety of views. Several of these views require further database processing to retrieve the necessary order object using the `orderId` request parameter. To do this additional processing, you pass the request first to a servlet that is mapped to the URL pattern `/WEB-INF/retrieveOrder.do` in the deployment descriptor. This servlet takes two request parameters, the `orderId` and the `jspURL`. It handles the database calls to retrieve and build the complex order objects and then it dispatches to the `jspURL`.

Which code snippet in the Front Controller servlet dispatches the request to the order retrieval servlet?

- A. `request.setAttribute("orderId", orderId);`
`request.setAttribute("jspURL", jspURL);`
`RequestDispatcher view`
`= context.getRequestDispatcher("/WEB-INF/retrieveOrder.do");`
`view.forward(request, response);`
- B. `request.setParameter("orderId", orderId);`
`request.setParameter("jspURL", jspURL);`
`Dispatcher view`
`= request.getDispatcher("/WEB-INF/retrieveOrder.do");`
`view.forwardRequest(request, response);`
- C. `String T="/WEB-INF/retrieveOrder.do?orderId=%d&jspURL=%s";`
`String url = String.format(T, orderId, jspURL);`
`RequestDispatcher view`
`= context.getRequestDispatcher(url);`
`view.forward(request, response);`
- D. `String T="/WEB-INF/retrieveOrder.do?orderId=%d&jspURL=%s";`
`String url = String.format(T, orderId, jspURL);`
`Dispatcher view`
`= context.getDispatcher(url);`

view.forwardRequest(request, response);

Answer: C

www.TestNow.com Q: 129 You have built a web application that you license to small businesses. The webapp uses a context parameter, called `licenseExtension`, which enables certain advanced features based on your client's license package. When a client pays for a specific service, you provide them with a license extension key that they insert into the `<context-param>` of the deployment descriptor. Not every client will have this context parameter so you need to create a context listener to set up a default value in the `licenseExtension` parameter. Which code snippet will accomplish this goal?

- A. You cannot do this because context parameters CANNOT be altered programmatically.
- B.

```
String ext = context.getParameter('licenseExtension');
if ( ext == null ) {
context.setParameter('licenseExtension', DEFAULT);
}
```
- C.

```
String ext = context.getAttribute('licenseExtension');
if ( ext == null ) {
context.setAttribute('licenseExtension', DEFAULT);
}
```
- D.

```
String ext = context.getInitParameter('licenseExtension');
if ( ext == null ) {
context.resetInitParameter('licenseExtension', DEFAULT);
}
```
- E.

```
String ext = context.getInitParameter('licenseExtension');
if ( ext == null ) {
context.setInitParameter('licenseExtension', DEFAULT);
}
```

Answer: A

www.TestNow.com Q: 130 You have a use case in your web application that adds several session-scoped attributes. At the end of the use case, one of these objects, the manager attribute, is removed and then it needs to decide which of the other session-scoped attributes to remove.

How can this goal be accomplished?

- A. The object of the manager attribute should implement the `HttpSessionBindingListener` and it should call the `removeAttribute` method on the appropriate session attributes.
- B. The object of the manager attribute should implement the `HttpSessionListener` and it should call the `removeAttribute` method on the appropriate session attributes.

- C. The object of the manager attribute should implement the HttpSessionBindingListener and it should call the deleteAttribute method on the appropriate session attributes.
- D. The object of the manager attribute should implement the HttpSessionListener and it should call the deleteAttribute method on the appropriate session attributes.

Answer: A

www.TestNow.com Q: 131 You want to create a filter for your web application and your filter will implement javax.servlet.Filter.

Which two statements are true? (Choose two.)

- A. Your filter class must implement an init method and a destroy method.
- B. Your filter class must also implement javax.servlet.FilterChain.
- C. When your filter chains to the next filter, it should pass the same arguments it received in its doFilter method.
- D. The method that your filter invokes on the object it received that implements javax.servlet.FilterChain can invoke either another filter or a servlet.
- E. Your filter class must implement a doFilter method that takes, among other things, an HttpServletRequest object and an HttpServletResponse object.

Answer: A, D

www.TestNow.com Q: 132 Your web site has many user-customizable features, for example font and color preferences on web pages. Your IT department has already built a subsystem for user preferences using Java SE's lang.util.prefs package APIs and you have been ordered to reuse this subsystem in your web application. You need to create an event listener that stores the user's Preference object when an HTTP session is created. Also, note that user identification information is stored in an HTTP cookie.

Which partial listener class can accomplish this goal?

- A.

```
public class UserPrefLoader implements HttpSessionListener {  
    public void sessionCreated(HttpSessionEvent se) {  
        MyPrefsFactory myFactory = (MyPrefsFactory) se.getServletContext().getAttribute("myPrefsFactory");  
        User user = getUserFromCookie(se);  
        myFactory.setThreadLocalUser(user);  
        Preferences userPrefs = myFactory.userRoot();  
        se.getSession().setAttribute("prefs", userPrefs);  
    }  
    // more code here  
}
```
- B.

```
public class UserPrefLoader implements SessionListener {
```

```

public void sessionCreated(SessionEvent se) {
    MyPrefsFactory myFactory = (MyPrefsFactory) se.getContext().getAttribute("myPrefsFactory");
    User user = getUserFromCookie(se);
    myFactory.setThreadLocalUser(user);
    Preferences userPrefs = myFactory.userRoot();
    se.getSession().setAttribute("prefs", userPrefs);
}
// more code here
}
C. public class UserPrefLoader implements HttpSessionListener {
    public void sessionInitialized(HttpSessionEvent se) {
        MyPrefsFactory myFactory = (MyPrefsFactory) se.getServletContext().getAttribute("myPrefsFactory");
        User user = getUserFromCookie(se);
        myFactory.setThreadLocalUser(user);
        Preferences userPrefs = myFactory.userRoot();
        se.getHttpSession().setAttribute("prefs", userPrefs);
    }
    // more code here
}
D. public class UserPrefLoader implements SessionListener {
    public void sessionInitialized(SessionEvent se) {
        MyPrefsFactory myFactory = (MyPrefsFactory) se.getServletContext().getAttribute("myPrefsFactory");
        User user = getUserFromCookie(se);
        myFactory.setThreadLocalUser(user);
        Preferences userPrefs = myFactory.userRoot();
        se.getSession().setAttribute("prefs", userPrefs);
    }
    // more code here
}

```

Answer: A

www.TestNow.com Q: 133 Given the web application deployment descriptor elements:

11. `<filter>`
12. `<filter-name>ParamAdder</filter-name>`
13. `<filter-class>com.example.ParamAdder</filter-class>`
14. `</filter>`
- ...
24. `<filter-mapping>`
25. `<filter-name>ParamAdder</filter-name>`
26. `<servlet-name>MyServlet</servlet-name>`
27. `<!-- insert element here -->`
28. `</filter-mapping>`

Which element, inserted at line 27, causes the ParamAdder filter to be applied when MyServlet is invoked by another servlet using the RequestDispatcher.include method?

- A. `<include/>`
- B. `<dispatcher>INCLUDE</dispatcher>`
- C. `<dispatcher>include</dispatcher>`
- D. `<filter-condition>INCLUDE</filter-condition>`
- E. `<filter-condition>include</filter-condition>`

Answer: B

www.TestNews.com Q: 134 Your web application uses a simple architecture in which servlets handle requests and then forward to a JSP using a request dispatcher. You need to pass information calculated by the servlet to the JSP; furthermore, that JSP uses a custom tag and must also process this information. This information must NOT be accessible to any other servlet, JSP or session in the webapp. How can you accomplish this goal?

- A. Store the data in a public instance variable in the servlet.
- B. Add an attribute to the request object before using the request dispatcher.
- C. Add an attribute to the context object before using the request dispatcher.
- D. This CANNOT be done as the tag handler has no means to extract this data.

Answer: B

www.TestNews.com Q: 135 A JSP page needs to set the property of a given JavaBean to a value that is calculated with the JSP page. Which three `jsp:setProperty` attributes must be used to perform this initialization? (Choose three.)

- A. `id`
- B. `val`
- C. `name`
- D. `param`
- E. `value`
- F. `property`
- G. `attribute`

Answer: C, E, F

www.TestNews.com Q: 136 Your web application views all have the same header, which includes the `<title>` tag in the `<head>` element of the rendered HTML. You have decided to remove this redundant HTML code from your JSPs and put it into a single JSP called `/WEB-INF/jsp/header.jsp`. However, the title of each page is unique, so you have decided to use a variable called `pageTitle` to parameterize this in the header JSP, like this:

10. `<title>${param.pageTitle}<title>`

Which JSP code snippet should you use in your main view JSPs to insert the header and pass the `pageTitle` variable?

- A. `<jsp:insert page='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:insert>`
- B. `<jsp:include page='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:include>`
- C. `<jsp:include file='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:include>`
- D. `<jsp:insert page='/WEB-INF/jsp/header.jsp'>`
`<jsp:param name='pageTitle' value='Welcome Page' />`
`</jsp:insert>`
- E. `<jsp:include page='/WEB-INF/jsp/header.jsp'>`
`<jsp:param name='pageTitle' value='Welcome Page' />`
`</jsp:include>`

Answer: E

www.TestNews.com Q: 137 A JSP page needs to instantiate a JavaBean to be used by only that page. Which two `jsp:useBean` attributes must be used to access this attribute in the JSP page? (Choose two.)

- A. `id`
- B. `type`
- C. `name`
- D. `class`
- E. `scope`
- F. `create`

Answer: A, D

www.TestNews.com Q: 138 Click the Exhibit button.

Given the HTML form:

```
1. <html>
2. <body>
3.   <form action="submit.jsp">
4.     Name: <input type="text" name="i1"><br>
5.     Price: <input type="text" name="i2"><br>
6.     <input type="submit">
7.   </form>
8. </body>
9. </html>
```

Assume the product attribute does NOT yet exist in any scope.

Which code snippet, in submit.jsp, instantiates an instance of com.example.Product that contains the results of the form submission?


```

1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }

```

- A. `<jsp:useBean id="com.example.Product" />`
`<jsp:setProperty name="product" property="*" />`
- B. `<jsp:useBean id="product" class="com.example.Product" />`
`${product.name = param.i1}`
`${product.price = param.i2}`
- C. `<jsp:useBean id="product" class="com.example.Product">`
`<jsp:setProperty name="product" property="name"`
`param="i1" />`
`<jsp:setProperty name="product" property="price"`

```

param="i2" />
</jsp:useBean>
D. <jsp:useBean id="product" type="com.example.Product">
<jsp:setProperty name="product" property="name"
value="<%= request.getParameter( "i1" ) %>" />
<jsp:setProperty name="product" property="price"
value="<%= request.getParameter( "i2" ) %>" />
</jsp:useBean>

```

Answer: C

www.TestNews.com Q: 139 Click the Task button.

Place the events in the order they occur.

Drag and Drop

Place the events in the order they occur.

Order of Steps	Event
1st	web container instantiates the servlet
2nd	web container calls the servlet's destroy() method
3rd	web container loads the servlet class
4th	web container calls the servlet's init() method
5th	web container calls the servlet's service() method

Done

Answer: Check TestNews eEngine, Download from Member Center

www.TestNews.com Q: 140 For an HttpServletResponse response, which two create a custom header? (Choose two.)

- A. response.setHeader("X-MyHeader", "34");
- B. response.addHeader("X-MyHeader", "34");
- C. response.setHeader(new HttpHeader("X-MyHeader", "34"));
- D. response.addHeader(new HttpHeader("X-MyHeader", "34"));
- E. response.addHeader(new ServletHeader("X-MyHeader", "34"));
- F. response.setHeader(new ServletHeader("X-MyHeader", "34"));

Answer: A, B

www.TestNews.com Q: 141 You need to create a servlet filter that stores all request headers to a database for all requests to the web application's home page `"/index.jsp"`. Which `HttpServletRequest` method allows you to retrieve all of the request headers?

- A. `String[] getHeaderNames()`
- B. `String[] getRequestHeaders()`
- C. `java.util.Iterator getHeaderNames()`
- D. `java.util.Iterator getRequestHeaders()`
- E. `java.util.Enumeration getHeaderNames()`
- F. `java.util.Enumeration getRequestHeaders()`

Answer: E

www.TestNews.com Q: 142 Given an `HttpServletRequest` request and `HttpServletResponse` response, which sets a cookie `"username"` with the value `"joe"` in a servlet?

- A. `request.addCookie("username", "joe")`
- B. `request.setCookie("username", "joe")`
- C. `response.addCookie("username", "joe")`
- D. `request.addHeader(new Cookie("username", "joe"))`
- E. `request.addCookie(new Cookie("username", "joe"))`
- F. `response.addCookie(new Cookie("username", "joe"))`
- G. `response.addHeader(new Cookie("username", "joe"))`

Answer: F

www.TestNews.com Q: 143 Click the Task button.

Given a request from `mybox.example.com`, with an IP address of `10.0.1.11` on port `33086`, place the appropriate `ServletRequest` methods onto their corresponding return values.

Drag and Drop

Given a request from mybox.example.com, with an IP address of 10.0.1.11 on port 33086, place the appropriate ServletRequest methods onto their corresponding return values.

Proxy / Client Settings:	ServletRequest Methods:
mybox.example.com	getServerPort
10.0.1.11	getServerAddr
33086	getServerName
	getRemotePort
	getRemoteAddr
	getRemoteHost

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 144 Your web application requires the ability to load and remove web files dynamically to the web container's file system. Which two HTTP methods are used to perform these actions? (Choose two.)

- A. PUT
- B. POST
- C. SEND
- D. DELETE
- E. REMOVE

F. DESTROY

Answer: A, D

www.TestNow.com Q: 145 Every page of your web site must include a common set of navigation menus at the top of the page. This menu is static HTML and changes frequently, so you have decided to use JSP's static import mechanism. Which JSP code snippet accomplishes this goal?

- A. `<%@ import file='/common/menu.html' %>`
- B. `<%@ page import='/common/menu.html' %>`
- C. `<%@ import page='/common/menu.html' %>`
- D. `<%@ include file='/common/menu.html' %>`
- E. `<%@ page include='/common/menu.html' %>`
- F. `<%@ include page='/common/menu.html' %>`

Answer: D

www.TestNow.com Q: 146 For manageability purposes, you have been told to add a "count" instance variable to a critical JSP Document so that a JMX MBean can track how frequent this JSP is being invoked. Which JSP code snippet must you use to declare this instance variable in the JSP Document?

- A. `<jsp:declaration>`
`int count = 0;`
`<jsp:declaration>`
- B. `<%! int count = 0; %>`
- C. `<jsp:declaration.instance>`
`int count = 0;`
`<jsp:declaration.instance>`
- D. `<jsp:scriptlet.declaration>`
`int count = 0;`
`<jsp:scriptlet.declaration>`

Answer: A

www.TestNow.com Q: 147 You have a new IT manager that has mandated that all JSPs must be refactored to include no scriptlet code. The IT manager has asked you to enforce this. Which deployment descriptor element will satisfy this constraint?

- A. `<jsp-property-group>`
`<url-pattern>*.jsp</url-pattern>`

```

<permit-scripting>>false</permit-scripting>
</jsp-property-group>
B. <jsp-config>
<url-pattern>*.jsp</url-pattern>
<permit-scripting>>false</permit-scripting>
</jsp-config>
C. <jsp-config>
<url-pattern>*.jsp</url-pattern>
<scripting-invalid>>true</scripting-invalid>
</jsp-config>
D. <jsp-property-group>
<url-pattern>*.jsp</url-pattern>
<scripting-invalid>>true</scripting-invalid>
</jsp-property-group>

```

Answer: D

www.TestNow.com Q: 148 You need to create a JSP that generates some JavaScript code to populate an array of strings used on the client-side. Which JSP code snippet will create this array?

```

A. MY_ARRAY = new Array();
<% for ( int i = 0; i < serverArray.length; i++ ) {
MY_ARRAY[<%= i %>] = '<%= serverArray[i] %>';
} %>
B. MY_ARRAY = new Array();
<% for ( int i = 0; i < serverArray.length; i++ ) {
MY_ARRAY[${i}] = '${serverArray[i]}'
} %>
C. MY_ARRAY = new Array();
<% for ( int i = 0; i < serverArray.length; i++ ) { %>
MY_ARRAY[<%= i %>] = '<%= serverArray[i] %>';
<% } %>
D. MY_ARRAY = new Array();
<% for ( int i = 0; i < serverArray.length; i++ ) { %>
MY_ARRAY[${i}] = '${serverArray[i]}'
<% } %>

```

Answer: C

www.TestNow.com Q: 149 You are building a Front Controller using a JSP page and you need to determine if the user's session has NOT been created yet and perform some special processing for this case. Which scriptlet code snippet will perform this test?

- A. `<% if (request.getSession(false) == null) {
// special processing
} %>`
- B. `<% if (request.getSession(false) == null) {
// special processing
} %>`
- C. `<% if (requestObject.getSession(false) == null) {
// special processing
} %>`
- D. `<% if (requestObject.getSession(false) == null) {
// special processing
} %>`

Answer: A

www.TestNow.com Q: 150 You are creating a new JSP page and you need to execute some code that acts when the page is first executed, but only once. Which three are possible mechanisms for performing this initialization code? (Choose three.)

- A. In the init method.
- B. In the jspInit method.
- C. In the constructor of the JSP's Java code.
- D. In a JSP declaration, which includes an initializer block.
- E. In a JSP declaration, which includes a static initializer block.

Answer: B, D, E

www.TestNow.com Q: 151 Click the Task button.

Place the code snippets in the proper order to construct the JSP code to include dynamic content into a JSP page at request-time.

Drag and Drop

Place the code snippets in the proper order to construct the JSP code to include dynamic content into a JSP page at request-time.

JSP Code:

Place here. Place here. Place here.

Code Snippets:

import='foo.jsp' /> file='foo.jsp'

<%@ include <jsp:import page='foo.jsp'

%> <%@ import <jsp:include

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 152 Given:

6. `<% int[] nums = {42, 420, 4200};`

7. `request.setAttribute("foo", nums); %>`

Which two successfully translate and result in a value of true? (Choose two.)

- A. `${true or false}`
- B. `${requestScope[foo][0] > 500}`
- C. `${requestScope['foo'][1] = 420}`
- D. `${(requestScope['foo'][0] lt 50) && (3 gt 2)}`

Answer: A, D

www.TestNow's.com Q: 153 Click the Exhibit button.

Given:

11. `<% com.example.Advisor advisor = new com.example.Advisor(); %>`

12. `<% request.setAttribute("foo", advisor); %>`

Assuming there are no other "foo" attributes in the web application, which three are valid EL expressions for retrieving the advice property of advisor? (Choose three.)

```
1. package com.example;
2.
3. public class Advisor {
4.     private String advice="take out the
garbage";
5.     public String getAdvice() {
6.         return advice;
7.     }
8.     public void setAdvice(String advice) {
9.         this.advice = advice;
10.    }
11. }
```

- A. `${foo.advice}`
- B. `${request.foo.advice}`
- C. `${requestScope.foo.advice}`
- D. `${requestScope[foo[advice]]}`
- E. `${requestScope["foo"]["advice"]}`
- F. `${requestScope["foo"]["advice"]}`

Answer: A, C, E

www.TestNow.com Q: 154 You are creating an error page that provides a user-friendly screen whenever a server exception occurs. You want to hide the stack trace, but you do want to provide the exception's error message to the user so the user can provide it to the customer service agent at your company. Which EL code snippet inserts this error message into the error page?

- A. Message: `${exception.message}`
- B. Message: `${exception.errorMessage}`

- C. Message: \${request.exception.message}
- D. Message: \${pageContext.exception.message}
- E. Message: \${request.exception.errorMessage}
- F. Message: \${pageContext.exception.errorMessage}

Answer: D

www.TestNow.com Q: 155 You are building a dating web site. The client's date of birth is collected along with lots of other information. You have created an EL function with the signature: `calcAge(java.util.Date):int` and it is assigned to the name, `age`, in the namespace, `funct`. In one of your JSPs you need to print a special message to clients who are younger than 25. Which EL code snippet will return true for this condition?

- A. `${calcAge(client.birthDate) < 25}`
- B. `${calcAge[client.birthDate] < 25}`
- C. `${funct:age(client.birthDate) < 25}`
- D. `${funct:age[client.birthDate] < 25}`
- E. `${funct:calcAge(client.birthDate) < 25}`
- F. `${funct:calcAge[client.birthDate] < 25}`

Answer: C

www.TestNow.com Q: 156 Given:

11. `<% java.util.Map map = new java.util.HashMap();`
12. `request.setAttribute("map", map);`
13. `map.put("a", "b");`
14. `map.put("b", "c");`
15. `map.put("c", "d"); %>`
16. `<%-- insert code here --%>`

Which three EL expressions, inserted at line 16, are valid and evaluate to "d"? (Choose three.)

- A. `${map.c}`
- B. `${map[c]}`
- C. `${map["c"]}`
- D. `${map.map.b}`
- E. `${map[map.b]}`
- F. `${map.(map.b)}`

Answer: A, C, E

www.TestNow.com Q: 157 Assume the tag handler for a `st:simple` tag extends `SimpleTagSupport`. In what way can scriptlet code be used in the body of `st:simple`?

- A. set the body content type to JSP in the TLD
- B. Scriptlet code is NOT legal in the body of `st:simple`.
- C. add `scripting-enabled="true"` to the start tag for the `st:simple` element
- D. add a pass-through Classic tag with a body content type of JSP to the body of `st:simple`, and place the scriptlet code in the body of that tag

Answer: B

www.TestNow.com Q: 158 Which statement is true if the `doStartTag` method returns `EVAL_BODY_BUFFERED` ?

- A. The tag handler must implement `BodyTag`.
- B. The `doAfterBody` method is NOT called.
- C. The `setBodyContent` method is called once.
- D. It is never legal to return `EVAL_BODY_BUFFERED` from `doStartTag`.

Answer: C

www.TestNow.com Q: 159 You are creating a library of custom tags that mimic the HTML form tags. When the user submits a form that fails validation, the JSP form is forwarded back to the user. The `<t:textField>` tag must support the ability to re-populate the form field with the request parameters from the user's last request. For example, if the user entered "Samantha" in the text field called `firstName`, then the form is re-populated like this:

```
<input type='text' name='firstName' value='Samantha' />
```

Which tag handler method will accomplish this goal?

- A.

```
public int doStartTag() throws JspException {  
    JspContext ctx = getJspContext();  
    String value = ctx.getParameter(this.name);  
    if ( value == null ) value = "";  
    JspWriter out = pageContext.getOut();  
    try {  
        out.write(String.format(INPUT, this.name, value));  
    } (Exception e) { throw new JspException(e); }  
    return SKIP_BODY;  
}
```

```

}
private static String INPUT
= "<input type='text' name='%s' value='%s' />";
B. public void doTag() throws JspException {
JspContext ctx = getJspContext();
String value = ctx.getParameter(this.name);
if ( value == null ) value = "";
JspWriter out = pageContext.getOut();
try {
out.write(String.format(INPUT, this.name, value));
} (Exception e) { throw new JspException(e); }
}
private static String INPUT
= "<input type='text' name='%s' value='%s' />";
C. public int doStartTag() throws JspException {
ServletRequet request = pageContext.getRequest();
String value = request.getParameter(this.name);
if ( value == null ) value = "";
JspWriter out = pageContext.getOut();
try {
out.write(String.format(INPUT, this.name, value));
} (Exception e) { throw new JspException(e); }
return SKIP_BODY;
}
private static String INPUT
= "<input type='text' name='%s' value='%s' />";
D. public void doTag() throws JspException {
ServletRequet request = pageContext.getRequest();
String value = request.getParameter(this.name);
if ( value == null ) value = "";
JspWriter out = pageContext.getOut();
try {
out.write(String.format(INPUT, this.name, value));
} (Exception e) { throw new JspException(e); }
}
private static String INPUT
= "<input type='text' name='%s' value='%s' />";

```

Answer: C

www.TestNews.com Q: 160 Which two directives are applicable only to tag files? (Choose two.)

- A. tag
- B. page

- C. taglib
- D. include
- E. variable

Answer: A, E

www.TestNow.com Q: 161 The `tl:taskList` and `tl:task` tags output a set of tasks to the response and are used as follows:

- 11. `<tl:taskList>`
- 12. `<tl:task name="Mow the lawn" />`
- 13. `<tl:task name="Feed the dog" />`
- 14. `<tl:task name="Do the laundry" />`
- 15. `</tl:taskList>`

The `tl:task` tag supplies information about a single task while the `tl:taskList` tag does the final output. The tag handler for `tl:taskList` is `TaskListTag`. The tag handler for `tl:task` is `TaskTag`. Both tag handlers extend `BodyTagSupport`.

Which allows the `tl:taskList` tag to get the task names from its nested `tl:task` children?

- A. It is impossible for a tag handler that extends `BodyTagSupport` to communicate with its parent and child tags.
- B. In the `TaskListTag.doStartTag` method, call `super.getChildTags()` and iterate through the results. Cast each result to a `TaskTag` and call `getName()`.
- C. In the `TaskListTag.doStartTag` method, call `getChildTags()` on the `PageContext` and iterate through the results. Cast each result to a `TaskTag` and call `getName()`.
- D. Create an `addTaskName` method in `TaskListTag`. Have the `TaskListTag.doStartTag` method, return `BodyTag.EVAL_BODY_BUFFERED`. In the `TaskTag.doStartTag` method, call `super.getParent()`, cast it to a `TaskListTag`, and call `addTaskName()`.
- E. Create an `addTaskName` method in `TaskListTag`. Have the `TaskListTag.doStartTag` method, return `BodyTag.EVAL_BODY_BUFFERED`. In the `TaskTag.doStartTag` method, call `findAncestorWithClass()` on the `PageContext`, passing `TaskListTag` as the class to find. Cast the result to `TaskListTag` and call `addTaskName()`.

Answer: D

www.TestNow.com Q: 162 Click the Exhibit button.

Given:

- 10. `<form action='create_product.jsp'>`
- 11. Product Name: `<input type='text' name='prodName' />
`
- 12. Product Price: `<input type='text' name='prodPrice' />
`

13. </form>

For a given product instance, which three jsp:setProperty attributes must be used to initialize its properties from the HTML form? (Choose three.)

```
1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }
```

- A. id
- B. name
- C. type
- D. param

- E. property
- F. reqParam
- G. attribute

Answer: B, D, E

www.TestNow.com Q: 163 Given:

```
1. package com.example;
2.
3. public abstract class AbstractItem {
4.     private String name;
...
13. }
```

Assume a concrete class `com.example.ConcreteItem` extends `com.example.AbstractItem`. A servlet sets a session-scoped attribute called "item" that is an instance of `com.example.ConcreteItem` and then forwards to a JSP page.

Which two are valid standard action invocations that expose a scripting variable to the JSP page? (Choose two.)

- A. `<jsp:useBean id="com.example.ConcreteItem" scope="session" />`
- B. `<jsp:useBean id="item" type="com.example.ConcreteItem" scope="session" />`
- C. `<jsp:useBean id="item" class="com.example.ConcreteItem" scope="session" />`
- D. `<jsp:useBean id="item" type="com.example.ConcreteItem" class="com.example.AbstractItem" scope="session" />`

Answer: B, C

www.TestNow.com Q: 164 Your web application views all have the same header, which includes the `<title>` tag in the `<head>` element of the rendered HTML. You have decided to remove this redundant HTML code from your JSPs and put it into a single JSP called `/WEB-INF/jsp/header.jsp`. However, the title of each page is unique, so you have decided to use a variable called `pageTitle` to parameterize this in the header JSP, like this:

10. `<title>${param.pageTitle}<title>`

Which JSP code snippet should you use in your main view JSPs to insert the header and pass the pageTitle variable?

- A. `<jsp:insert page='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:insert>`
- B. `<jsp:include page='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:include>`
- C. `<jsp:include file='/WEB-INF/jsp/header.jsp'>`
`${pageTitle='Welcome Page'}`
`</jsp:include>`
- D. `<jsp:insert page='/WEB-INF/jsp/header.jsp'>`
`<jsp:param name='pageTitle' value='Welcome Page' />`
`</jsp:insert>`
- E. `<jsp:include page='/WEB-INF/jsp/header.jsp'>`
`<jsp:param name='pageTitle' value='Welcome Page' />`
`</jsp:include>`

Answer: E

www.TestNow.com Q: 165 Click the Exhibit button.

Given the JSP code:

1. `<%`
2. `pageContext.setAttribute("product",`
3. `new com.example.Product("Pizza", 0.99));`
4. `%>`
5. `<%-- insert code here --%>`

Which two, inserted at line 5, output the name of the product in the response? (Choose two.)


```

1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }

```

- A. `<%= product.getName() %>`
- B. `<jsp:useBean id="product" class="com.example.Product" />`
`<%= product.getName() %>`
- C. `<jsp:useBean id="com.example.Product" scope="page">`
`<%= product.getName() %>`
`</jsp:useBean>`
- D. `<jsp:useBean id="product" type="com.example.Product"`
`scope="page" />`
`<%= product.getName() %>`
- E. `<jsp:useBean id="product" type="com.example.Product">`

```
<%= product.getName() %>
</jsp:useBean>
```

Answer: B, D

www.TestsNow.com Q: 166 If you want to use the Java EE platform's built-in type of authentication that uses a custom HTML page for authentication, which two statements are true? (Choose two.)

- A. Your deployment descriptor will need to contain this tag:
<auth-method>CUSTOM</auth-method>.
- B. The related custom HTML login page must be named loginPage.html.
- C. When you use this type of authentication, SSL is turned on automatically.
- D. You must have a tag in your deployment descriptor that allows you to point to both a login HTML page and an HTML page for handling any login errors.
- E. In the HTML related to authentication for this application, you must use predefined variable names for the variables that store the user and password values.

Answer: D, E

www.TestsNow.com Q: 167 Given the two security constraints in a deployment descriptor:

- 101. <security-constraint>
- 102. <!--a correct url-pattern and http-method goes here-->
- 103. <auth-constraint><role-name>SALES</role-name></auth-
- 103. <auth-constraint>
- 104. <role-name>SALES</role-name>
- 105. </auth-constraint>
- 106. </security-constraint>
- 107. <security-constraint>
- 108. <!--a correct url-pattern and http-method goes here-->
- 109. <!-- Insert an auth-constraint here -->
- 110. </security-constraint>

If the two security constraints have the same url-pattern and http-method, which two, inserted independently at line 109, will allow users with role names of either SALES or MARKETING to access this resource? (Choose two.)

- A. <auth-constraint/>
- B. <auth-constraint>
<role-name>*</role-name>
</auth-constraint>
- C. <auth-constraint>

<role-name>ANY</role-name>
</auth-constraint>
D. <auth-constraint>
<role-name>MARKETING</role-name>
</auth-constraint>

Answer: B, D

www.TestNow.com Q: 168 Which two are valid values for the <transport-guarantee> element inside a <security-constraint> element of a web application deployment descriptor? (Choose two.)

- A. NULL
- B. SECURE
- C. INTEGRAL
- D. ENCRYPTED
- E. CONFIDENTIAL

Answer: C, E

www.TestNow.com Q: 169 Which basic authentication type is optional for a J2EE 1.4 compliant web container?

- A. HTTP Basic Authentication
- B. Form Based Authentication
- C. HTTP Digest Authentication
- D. HTTPS Client Authentication

Answer: C

www.TestNow.com Q: 170 Which security mechanism uses the concept of a realm?

- A. authorization
- B. data integrity
- C. confidentiality
- D. authentication

Answer: D

www.TestNews.com Q: 171 Which two security mechanisms can be directed through a sub-element of the <user-data-constraint> element in a web application deployment descriptor? (Choose two.)

- A. authorization
- B. data integrity
- C. confidentiality
- D. authentication

Answer: B, C

www.TestNews.com Q: 172 You are developing several tag libraries that will be sold for development of third-party web applications. You are about to publish the first three libraries as JAR files: container-tags.jar, advanced-html-form-tags.jar, and basic-html-form-tags.jar. Which two techniques are appropriate for packaging the TLD files for these tag libraries? (Choose two.)

- A. The TLD must be located within the WEB-INF directory of the JAR file.
- B. The TLD must be located within the META-INF directory of the JAR file.
- C. The TLD must be located within the META-INF/tld/ directory of the JAR file.
- D. The TLD must be located within a subdirectory of WEB-INF directory of the JAR file.
- E. The TLD must be located within a subdirectory of META-INF directory of the JAR file.
- F. The TLD must be located within a subdirectory of META-INF/tld/ directory of the JAR file.

Answer: B, E

www.TestNews.com Q: 173 A custom tag is defined to take three attributes. Which two correctly invoke the tag within a JSP page? (Choose two.)

- A. <prefix:myTag a="foo" b="bar" c="baz" />
- B. <prefix:myTag attributes={"foo","bar","baz"} />
- C. <prefix:myTag jsp:attribute a="foo" b="bar" c="baz" />
- D. <prefix:myTag>
<jsp:attribute a:foo b:bar c:baz />
</prefix:myTag>
- E. <prefix:myTag>
<jsp:attribute \${ "foo", "bar", "baz" } />
</prefix:myTag>
- F. <prefix:myTag>
<jsp:attribute a="foo" b="bar" c="baz"/>
</prefix:myTag>
- G. <prefix:myTag>
<jsp:attribute name="a">foo</jsp:attribute>

```
<jsp:attribute name="b">bar</jsp:attribute>
<jsp:attribute name="c">baz</jsp:attribute>
</prefix:myTag>
```

Answer: A, G

www.TestsNow.com Q: 174 In a JSP-centric shopping cart application, you need to move a client's home address of the Customer object into the shipping address of the Order object. The address data is stored in a value object class called Address with properties for: street address, city, province, country, and postal code. Which two JSP code snippets can be used to accomplish this goal? (Choose two.)

- A. `<c:set var='order' property='shipAddress' value='${client.homeAddress}' />`
- B. `<c:set target='${order}' property='shipAddress' value='${client.homeAddress}' />`
- C. `<jsp:setProperty name='${order}' property='shipAddress' value='${client.homeAddress}' />`
- D. `<c:set var='order' property='shipAddress'>`
`<jsp:getProperty name='client' property='homeAddress' />`
`</c:set>`
- E. `<c:set target='${order}' property='shipAddress'>`
`<jsp:getProperty name='client' property='homeAddress' />`
`</c:set>`
- F. `<c:setProperty name='${order}' property='shipAddress'>`
`<jsp:getProperty name='client' property='homeAddress' />`
`</c:setProperty>`

Answer: B, E

www.TestsNow.com Q: 175 You have been contracted to create a web site for a free dating service. One feature is the ability for one client to send a message to another client, which is displayed in the latter client's private page. Your contract explicitly states that security is a high priority. Therefore, you need to prevent cross-site hacking in which one user inserts JavaScript code that is then rendered and invoked when another user views that content. Which two JSTL code snippets will prevent cross-site hacking in the scenario above? (Choose two.)

- A. `<c:out>${message}</c:out>`
- B. `<c:out value='${message}' />`
- C. `<c:out value='${message}' escapeXml='true' />`
- D. `<c:out eliminateXml='true'>${message}</c:out>`
- E. `<c:out value='${message}' eliminateXml='true' />`

Answer: B, C

www.TestNews.com Q: 176 Click the Exhibit button.

Assuming the tag library in the exhibit is imported with the prefix forum, which custom tag invocation produces a translation error in a JSP page?

```
1. <?xml version="1.0" encoding="UTF-8" ?>
2.
3. <taglib
xmlns="http://java.sun.com/xml/ns/j2ee"
4.   xmlns:xsi="http://www.w3.org/2001/XMLSchema
a-instance"
5.   xsi:schemaLocation="http://java.sun.com/xml
1/ns/j2ee web-jsptaglibrary_2_0.xsd"
6.   version="2.0">
7.   <tlib-version>1.0</tlib-version>
8.   <short-name>forum</short-name>
9.   <uri>http://example.com/tld/forum</uri>
10.  <tag>
11.    <name>message</name>
12.
<tag-class>com.example.MessageTag</tag-class>
13.
<body-content>scriptless</body-content>
14.   <attribute>
15.     <name>from</name>
16.     <rtexprvalue>true</rtexprvalue>
17.   </attribute>
18.   <attribute>
19.     <name>subject</name>
20.     <required>false</required>
21.     <rtexprvalue>true</rtexprvalue>
22.   </attribute>
23. </tag>
24. </taglib>
```

A. <forum:message from="My Name" subject="My Subject" />

B. <forum:message subject="My Subject">

My message body.

</forum:message>
 C. <forum:message from="My Name" subject="\${param.subject}">
 \${param.body}
 </forum:message>
 D. <forum:message from="My Name" subject="My Subject">
 <%= request.getParameter("body") %>
 </forum:message>
 E. <forum:message from="My Name"
 subject="<%= request.getParameter("subject") %>">
 My message body.
 </forum:message>

Answer: D

www.TestNow.com Q: 177 Which JSTL code snippet can be used to import content from another web resource?

- A. <c:import url="foo.jsp"/>
- B. <c:import page="foo.jsp"/>
- C. <c:include url="foo.jsp"/>
- D. <c:include page="foo.jsp"/>
- E. Importing cannot be done in JSTL. A standard action must be used instead.

Answer: A

www.TestNow.com Q: 178 Click the Exhibit button.

Assume the tag library in the exhibit is placed in a web application in the path /WEB-INF/tld/example.tld.

- 1.
2. <ex:hello />

Which JSP code, inserted at line 1, completes the JSP code to invoke the hello tag?

```

1. <?xml version="1.0" encoding="UTF-8" ?>
2.
3. <taglib
xmlns="http://java.sun.com/xml/ns/j2ee"
4.   xmlns:xsi="http://www.w3.org/2001/XMLSchema
a-instance"
5.   xsi:schemaLocation="http://java.sun.com/xml
l/ns/j2ee web-jsptaglibrary_2_0.xsd"
6.   version="2.0">
7.   <tlib-version>1.0</tlib-version>
8.   <short-name>ex</short-name>
9.
<uri>http://example.com/tld/example</uri>
10.   <tag>
11.     <name>hello</name>
12.
<tag-class>com.example.HelloTag</tag-class>
13.
<body-content>scriptless</body-content>
14.   </tag>
15. </taglib>

```

- A. <%@ taglib prefix="ex" uri="/WEB-INF/tld" %>
- B. <%@ taglib uri="/WEB-INF/tld/example.tld" %>
- C. <%@ taglib prefix="ex" uri="http://localhost:8080/tld/example.tld" %>
- D. <%@ taglib prefix="ex" uri="http://example.com/tld/example" %>

Answer: D

www.TestNow.com Q: 179 Which JSTL code snippet produces the output "big number" when X is greater than 42, but outputs "small number" in all other cases?

- A. <c:if test='<%= (X > 42) %>'><c:then>big number</c:then><c:else>small number</c:else></c:if>
- B. <c:if><c:then test='<%= (X > 42) %>'>big number</c:then>


```

<c:else>small number</c:else>
</c:if>
C. <c:choose test='<%= (X > 42) %> '>
<c:then>big number</c:when>
<c:else>small number</c:otherwise>
</c:choose>
D. <c:choose test='<%= (X > 42) %> '>
<c:when>big number</c:when>
<c:otherwise>small number</c:otherwise>
</c:choose>
E. <c:choose>
<c:when test='<%= (X > 42) %> '>big number</c:when>
<c:otherwise>small number</c:otherwise>
</c:choose>

```

Answer: E

www.TestNow.com Q: 180 A developer chooses to avoid using SingleThreadModel but wants to ensure that data is updated in a thread-safe manner. Which two can support this design goal? (Choose two.)

- A. Store the data in a local variable.
- B. Store the data in an instance variable.
- C. Store the data in the HttpSession object.
- D. Store the data in the ServletContext object.
- E. Store the data in the ServletRequest object.

Answer: A, E

www.TestNow.com Q: 181 Your web application uses a simple architecture in which servlets handle requests and then forward to a JSP using a request dispatcher. You need to pass information calculated in the servlet to the JSP for view generation. This information must NOT be accessible to any other servlet, JSP or session in the webapp. Which two techniques can you use to accomplish this goal? (Choose two.)

- A. Add attributes to the session object.
- B. Add attributes on the request object.
- C. Add parameters to the request object.
- D. Use the pageContext object to add request attributes.
- E. Add parameters to the JSP's URL when generating the request dispatcher.

Answer: B, E

www.TestNews.com Q: 182 For which three events can web application event listeners be registered? (Choose three.)

- A. when a session is created
- B. after a servlet is destroyed
- C. when a session has timed out
- D. when a cookie has been created
- E. when a servlet has forwarded a request
- F. when a session attribute value is changed

Answer: A, C, F

www.TestNews.com Q: 183 Given:

String value = getServletContext().getInitParameter("foo");

in an HttpServlet and a web application deployment descriptor that contains:

```
<context-param>
  <param-name>foo</param-name>
  <param-value>frodo</param-value>
</context-param>
```

Which two are true? (Choose two.)

- A. The foo initialization parameter CANNOT be set programmatically.
- B. Compilation fails because getInitParameter returns type Object.
- C. The foo initialization parameter is NOT a servlet initialization parameter.
- D. Compilation fails because ServletContext does NOT have a getInitParameter method.
- E. The foo parameter must be defined within the <servlet> element of the deployment descriptor.
- F. The foo initialization parameter can also be retrieved using getServletConfig().getInitParameter("foo").

Answer: A, C

www.TestNews.com Q: 184 Click the Exhibit button. Given the web application deployment descriptor elements:

- 11. <filter>
- 12. <filter-name>ParamAdder</filter-name>
- 13. <filter-class>com.example.ParamAdder</filter-class>
- 14. </filter>

...

- 31. `<filter-mapping>`
- 32. `<filter-name>ParamAdder</filter-name>`
- 33. `<servlet-name>Destination</servlet-name>`
- 34. `</filter-mapping>`

...

- 55. `<servlet-mapping>`
- 56. `<servlet-name>Destination</servlet-name>`
- 57. `<url-pattern>/dest/Destination</url-pattern>`
- 58. `</servlet-mapping>`

What is the result of a client request of the Source servlet with no query string?

```

// Source Servlet : Source.java
10. public class Source extends HttpServlet {
11.     public void service(HttpServletRequest request,
12.                          HttpServletResponse response)
13.         throws ServletException, IOException {
14.         RequestDispatcher rd =
15.             request.getRequestDispatcher("/dest/Destination");
16.         rd.forward(request, response);
17.     }
18. }

// Filter : ParamAdder.java
12. public class ParamAdder implements Filter {
13.     // ...
23.     public void doFilter(ServletRequest request,
24.                          ServletResponse response,
25.                          FilterChain chain)
26.         throws ServletException, IOException {
27.         request.setAttribute("filterAdded", "addedByFilter");
28.         chain.doFilter(request, response);
29.     }
30.     // ...
50. }

// Destination Servlet Destination.java
10. public class Destination extends HttpServlet {
11.     public void service(HttpServletRequest request,
12.                          HttpServletResponse response)
13.         throws ServletException, IOException {
14.         String filterParam =
15.             (String) request.getAttribute("filterAdded");
16.         response.getWriter().println("filterAdded = "
17.                                     + filterParam);
18.     }
19. }

```

- A. The output "filterAdded = null" is written to the response stream.
- B. The output "filterAdded = addedByFilter" is written to the response stream.
- C. An exception is thrown at runtime within the service method of the Source servlet.
- D. An exception is thrown at runtime within the service method of the Destination servlet.

Answer: A

www.TestNow.com Q: 185 Given a Filter class definition with this method:

```
21. public void doFilter(ServletRequest request,  
22.                     ServletResponse response,  
23.                     FilterChain chain)  
24.     throws ServletException, IOException {  
25.     // insert code here  
26. }
```

Which should you insert at line 25 to properly invoke the next filter in the chain, or the target servlet if there are no more filters?

- A. chain.forward(request, response);
- B. chain.doFilter(request, response);
- C. request.forward(request, response);
- D. request.doFilter(request, response);

Answer: B

www.TestNow.com Q: 186 Servlet A forwarded a request to servlet B using the forward method of RequestDispatcher. What attribute in B's request object contains the URI of the original request received by servlet A?

- A. REQUEST_URI
- B. javax.servlet.forward.request_uri
- C. javax.servlet.forward.REQUEST_URI
- D. javax.servlet.request_dispatcher.request_uri
- E. javax.servlet.request_dispatcher.REQUEST_URI

Answer: B

www.TestNow.com Q: 187 You want to create a valid directory structure for your Java EE web application, and you want to put your web application into a WAR file called MyApp.war. Which two are true about the WAR file? (Choose two.)

- A. At deploy time, Java EE containers add a directory called META-INF directly into the MyApp directory.
- B. At deploy time, Java EE containers add a file called MANIFEST.MF directly into the MyApp directory.
- C. It can instruct your Java EE container to verify, at deploy time, whether you have properly configured your application's classes.
- D. At deploy time, Java EE containers add a directory call META-WAR directly into the MyApp directory.

Answer: A, C

www.TestNews.com Q: 188 Which two from the web application deployment descriptor are valid? (Choose two.)

- A. `<error-page>`
`<exception-type>*/exception-type>`
`<location>/error.html</location>`
`</error-page>`
- B. `<error-page>`
`<exception-type>java.lang.Error</exception-type>`
`<location>/error.html</location>`
`</error-page>`
- C. `<error-page>`
`<exception-type>java.lang.Throwable</exception-type>`
`<location>/error.html</location>`
`</error-page>`
- D. `<error-page>`
`<exception-type>java.io.IOException</exception-type>`
`<location>/error.html</location>`
`</error-page>`
- E. `<error-page>`
`<exception-type>NullPointerException</exception-type>`
`<location>/error.html</location>`
`</error-page>`

Answer: C, D

www.TestNews.com Q: 189 After a merger with another small business, your company has inherited a legacy WAR file but the original source files were lost. After reading the documentation of that web application, you discover that the WAR file contains a useful tag library that you want to reuse in your own webapp packaged as a WAR file.

What do you need to do to reuse this tag library?

- A. Simply rename the legacy WAR file as a JAR file and place it in your webapp's library directory.
- B. Unpack the legacy WAR file, move the TLD file to the META-INF directory, repackage the whole thing as a JAR file, and place that JAR file in your webapp's library directory.
- C. Unpack the legacy WAR file, move the TLD file to the META-INF directory, move the class files to the top-level directory, repackage the whole thing as a JAR file, and place that JAR file in your webapp's library directory.

D. Unpack the legacy WAR file, move the TLD file to the META-INF directory, move the class files to the top-level directory, repackage the WAR, and place that WAR file in your webapp's WEB-INF directory.

Answer: C

www.TestNews.com Q: 190 Which path is required to be present within a WAR file?

- A. /classes
- B. /index.html
- C. /MANIFEST-INF
- D. /WEB-INF/web.xml
- E. /WEB-INF/classes
- F. /WEB-INF/index.html
- G. /META-INF/index.xml

Answer: D

www.TestNews.com Q: 191 Given:

- 11. <servlet>
- 12. <servlet-name>catalog</servlet-name>
- 13. <jsp-file>/catalogTemplate.jsp</jsp-file>
- 14. <load-on-startup>10</load-on-startup>
- 15. </servlet>

Which two are true? (Choose two.)

- A. Line 13 is not valid for a servlet declaration.
- B. Line 14 is not valid for a servlet declaration.
- C. One instance of the servlet will be loaded at startup.
- D. Ten instances of the servlet will be loaded at startup.
- E. The servlet will be referenced by the name catalog in mappings.

Answer: C, E

www.TestsNow.com Q: 192 You have built a web application with tight security. Several directories of your webapp are used for internal purposes and you have overridden the default servlet to send an HTTP 403 status code for any request that maps to one of these directories. During testing, the Quality Assurance director decided that they did NOT like seeing the bare response page generated by Firefox and Internet Explorer. The director recommended that the webapp should return a more user-friendly web page that has the same look-and-feel as the webapp plus links to the webapp's search engine. You have created this JSP page in the /WEB-INF/jsp/error403.jsp file. You do NOT want to alter the complex logic of the default servlet. How can you declare that the web container must send this JSP page whenever a 403 status is generated?

- A. `<error-page>`
`<error-code>403</error-code>`
`<url>/WEB-INF/jsp/error403.jsp</url>`
`</error-page>`
- B. `<error-page>`
`<status-code>403</status-code>`
`<url>/WEB-INF/jsp/error403.jsp</url>`
`</error-page>`
- C. `<error-page>`
`<error-code>403</error-code>`
`<location>/WEB-INF/jsp/error403.jsp</location>`
`</error-page>`
- D. `<error-page>`
`<status-code>403</status-code>`
`<location>/WEB-INF/jsp/error403.jsp</location>`
`</error-page>`

Answer: C

www.TestsNow.com Q: 193 Given a portion of a valid Java EE web application's directory structure:

```
MyApp
|
|-- Directory1
|   |-- File1.html
|
|-- META-INF
|   |-- File2.html
|
|-- WEB-INF
|   |-- File3.html
```

You want to know whether File1.html, File2.html, and/or File3.html is protected from direct access by your web client's browsers.

What statement is true?

- A. All three files are directly accessible.
- B. Only File1.html is directly accessible.
- C. Only File2.html is directly accessible.
- D. Only File3.html is directly accessible.
- E. Only File1.html and File2.html are directly accessible.
- F. Only File1.html and File3.html are directly accessible.
- G. Only File2.html and File3.html are directly accessible.

Answer: B

www.TestsNow.com Q: 194 A web component accesses a local EJB session bean with a component interface of `com.example.Account` with a home interface of `com.example.AccountHome` and a JNDI reference of `ejb/Account`. Which makes the local EJB component accessible to the web components in the web application deployment descriptor?

- A. `<env-ref>`
`<ejb-ref-name>ejb/Account</ejb-ref-name>`
`<ejb-ref-type>Session</ejb-ref-type>`
`<local-home>com.example.AccountHome</local-home>`
`<local>com.example.Account</local>`
`</env-ref>`
- B. `<resource-ref>`
`<ejb-ref-name>ejb/Account</ejb-ref-name>`
`<ejb-ref-type>Session</ejb-ref-type>`
`<local-home>com.example.AccountHome</local-home>`
`<local>com.example.Account</local>`
`</resource-ref>`
- C. `<ejb-local-ref>`
`<ejb-ref-name>ejb/Account</ejb-ref-name>`
`<ejb-ref-type>Session</ejb-ref-type>`
`<local-home>com.example.AccountHome</local-home>`
`<local>com.example.Account</local>`
`</ejb-local-ref>`
- D. `<ejb-remote-ref>`
`<ejb-ref-name>ejb/Account</ejb-ref-name>`
`<ejb-ref-type>Session</ejb-ref-type>`
`<local-home>com.example.AccountHome</local-home>`
`<local>com.example.Account</local>`
`</ejb-remote-ref>`

Answer: C

www.TestNow.com Q: 195 One of the use cases in your web application uses many session-scoped attributes. At the end of the use case, you want to clear out this set of attributes from the session object. Assume that this static variable holds this set of attribute names:

```
201. private static final Set<String> USE_CASE_ATTRS;  
202. static {  
203.     USE_CASE_ATTRS.add("customerOID");  
204.     USE_CASE_ATTRS.add("custMgrBean");  
205.     USE_CASE_ATTRS.add("orderOID");  
206.     USE_CASE_ATTRS.add("orderMgrBean");  
207. }
```

Which code snippet deletes these attributes from the session object?

- A. session.removeAll(USE_CASE_ATTRS);
- B. for (String attr : USE_CASE_ATTRS) {
session.remove(attr);
}
- C. for (String attr : USE_CASE_ATTRS) {
session.removeAttribute(attr);
}
- D. for (String attr : USE_CASE_ATTRS) {
session.deleteAttribute(attr);
}
- E. session.deleteAllAttributes(USE_CASE_ATTRS);

Answer: C

www.TestNow.com Q: 196 Given an `HttpServletRequest` request:

```
22. String id = request.getParameter("jsessionid");  
23. // insert code here  
24. String name = (String) session.getAttribute("name");
```

Which three can be placed at line 23 to retrieve an existing `HttpSession` object? (Choose three.)

- A. `HttpSession session = request.getSession();`
- B. `HttpSession session = request.getSession(id);`
- C. `HttpSession session = request.getSession(true);`
- D. `HttpSession session = request.getSession(false);`

E. `HttpSession session = request.getSession("jsessionId");`

Answer: A, C, D

www.TestNews.com Q: 197 A developer for the company web site has been told that users may turn off cookie support in their browsers. What must the developer do to ensure that these customers can still use the web application?

- A. The developer must ensure that every URL is properly encoded using the appropriate URL rewriting APIs.
- B. The developer must provide an alternate mechanism for managing sessions and abandon the HttpSession mechanism entirely.
- C. The developer can ignore this issue. Web containers are required to support automatic URL rewriting when cookies are not supported.
- D. The developer must add the string `?id=<sessionid>` to the end of every URL to ensure that the conversation with the browser can continue.

Answer: A

www.TestNews.com Q: 198 You need to store a floating point number, called Tsquare, in the session scope. Which two code snippets allow you to retrieve this value? (Choose two.)

- A. `float Tsquare = session.getFloatAttribute("Tsquare");`
- B. `float Tsquare = (Float) session.getAttribute("Tsquare");`
- C. `float Tsquare = (float) session.getNumericAttribute("Tsquare");`
- D. `float Tsquare = ((Float) session.getAttribute("Tsquare")).floatValue();`
- E. `float Tsquare = ((Float) session.getFloatAttribute("Tsquare")).floatValue();`
- F. `float Tsquare = ((Float) session.getNumericAttribute("Tsquare")).floatValue();`

Answer: B, D

www.TestNews.com Q: 199 Given the definition of MyObject and that an instance of MyObject is bound as a session attribute:

- 8. `package com.example;`
- 9. `public class MyObject implements`
- 10. `javax.servlet.http.HttpSessionBindingListener {`
- 11. `// class body code here`
- 12. `}`

Which is true?

- A. Only a single instance of MyObject may exist within a session.
- B. The unbound method of the MyObject instance is called when the session to which it is bound times out.
- C. The com.example.MyObject must be declared as a servlet event listener in the web application deployment descriptor.
- D. The valueUnbound method of the MyObject instance is called when the session to which it is bound times out.

Answer: D

www.TestNow.com Q: 200 As a convenience feature, your web pages include an Ajax request every five minutes to a special servlet that monitors the age of the user's session. The client-side JavaScript that handles the Ajax callback displays a message on the screen as the session ages. The Ajax call does NOT pass any cookies, but it passes the session ID in a request parameter called sessionId. In addition, assume that your webapp keeps a hashmap of session objects by the ID. Here is a partial implementation of this servlet:

```

10. public class SessionAgeServlet extends HttpServlet {
11.     public void service(HttpServletRequest request, HttpServletResponse response) throws IOException {
12.         String sessionId = request.getParameter("sessionId");
13.         HttpSession session = getSession(sessionId);
14.         long age = // your code here
15.         response.getWriter().print(age);
16.     }
... // more code here
47. }

```

Which code snippet on line 14, will determine the age of the session?

- A. session.getMaxInactiveInterval();
- B. session.getLastAccessed().getTime() - session.getCreationTime().getTime();
- C. session.getLastAccessedTime().getTime() - session.getCreationTime().getTime();
- D. session.getLastAccessed() - session.getCreationTime();
- E. session.getMaxInactiveInterval() - session.getCreationTime();
- F. session.getLastAccessedTime() - session.getCreationTime();

Answer: F

www.TestNow.com Q: 201 Which statement is true about web container session management?

- A. Access to session-scoped attributes is guaranteed to be thread-safe by the web container.
- B. To activate URL rewriting, the developer must use the HttpServletResponse.setURLRewriting method.

- C. If the web application uses HTTPS, then the web container may use the data on the HTTPS request stream to identify the client.
- D. The JSESSIONID cookie is stored permanently on the client so that a user may return to the web application and the web container will rejoin that session.

Answer: C

www.TestNow.com Q: 202 You are designing an n-tier Java EE application. You have already decided that some of your JSPs will need to get data from a Customer entity bean. You are trying to decide whether to use a Customer stub object or a Transfer Object. Which two statements are true? (Choose two.)

- A. The stub will increase network traffic.
- B. The Transfer Object will decrease data staleness.
- C. The stub will increase the logic necessary in the JSPs.
- D. In both cases, the JSPs can use EL expressions to get data.
- E. Only the Transfer Object will need to use a Business Delegate.
- F. Using the stub approach allows you to design the application without using a Service Locator.

Answer: A, D

www.TestNow.com Q: 203 Which two are characteristics of the Intercepting Filter pattern? (Choose two.)

- A. It provides centralized request handling for incoming requests.
- B. It forces resource authentication to be distributed across web components.
- C. It reduces coupling between presentation-tier clients and underlying business services.
- D. It can be added and removed unobtrusively, without requiring changes to existing code.
- E. It allows preprocessing and postprocessing on the incoming requests and outgoing responses.

Answer: D, E

www.TestNow.com Q: 204 A developer has created a web application that includes a servlet for each use case in the application. These servlets have become rather difficult to maintain because the request processing methods have become very large. There is also common processing code in many servlets because these use cases are very similar. Which two design patterns can be used together to refactor and simplify this web application? (Choose two.)

- A. Proxy
- B. View Helper

- C. Front Controller
- D. Session Facade
- E. Business Delegate
- F. Model-View-Controller

Answer: C, F

www.TestNow.com Q: 205 A developer is designing a multi-tier web application and discovers a need to hide the details of establishing and maintaining remote communications from the client. In addition, the application needs to find, in a transparent manner, the heterogeneous business components used to service the client's requests. Which design patterns, working together, address these issues?

- A. Business Delegate and Transfer Object
- B. Business Delegate and Service Locator
- C. Front Controller and Business Delegate
- D. Intercepting Filter and Transfer Object
- E. Model-View-Controller and Intercepting Filter

Answer: B

www.TestNow.com Q: 206 A developer is designing a web application that must support multiple interfaces, including:

an XML web service for B2B
HTML for web-based clients
WML for wireless customers

Which design pattern provides a solution for this problem?

- A. Session Facade
- B. Business Delegate
- C. Data Access Object
- D. Model-View-Controller
- E. Chain of Responsibility

Answer: D

www.TestNow.com Q: 207 A developer is designing a web application which extensively uses EJBs and JMS. The developer finds that there is a lot of duplicated code to build the JNDI contexts to access the beans and queues. Further, because of the complexity, there are numerous errors in the code. Which J2EE design pattern provides a solution for this problem?

- A. Command
- B. Transfer Object
- C. Service Locator
- D. Session Facade
- E. Business Delegate
- F. Data Access Object

Answer: C

www.TestNow.com Q: 208 A developer is designing a web application that must support multiple interfaces, including:

**an XML web service for B2B
HTML for web-based clients
WML for wireless customers**

Which design pattern provides a solution for this problem?

- A. Session Facade
- B. Business Delegate
- C. Data Access Object
- D. Model-View-Controller
- E. Chain of Responsibility

Answer: D

www.TestNow.com Q: 209 Which two are characteristics of the Front Controller pattern? (Choose two.)

- A. It simplifies remote interfaces to distributed objects.
- B. It promotes cleaner application partitioning and encourages reuse.
- C. It provides an initial point of contact for handling all related requests.
- D. It reduces maintainability due to the increased complexity of the design.
- E. It provides loosely coupled handlers that can be combined in various permutations.

Answer: B, C

www.TestsNow.com Q: 210 Squeaky Beans Inc. hired an outside consultant to develop their web application. To finish the job quickly, the consultant created several dozen JSP pages that directly communicate with the database. The Squeaky business team has since purchased a set of business objects to model their system, and the Squeaky developer charged with maintaining the web application must now refactor all the JSPs to work with the new system. Which pattern can the developer use to solve this problem?

- A. Transfer Object
- B. Service Locator
- C. Intercepting Filter
- D. Business Delegate

Answer: D

www.TestsNow.com Q: 211 A developer is designing the presentation tier for a web application that relies on a complex session bean. The session bean is still being developed and the APIs for it are NOT finalized. Any changes to the session bean API directly impacts the development of the presentation tier. Which design pattern provides a means to manage the uncertainty in the API?

- A. View Helper
- B. Front Controller
- C. Composite View
- D. Intercepting Filter
- E. Business Delegate
- F. Chain of Responsibility

Answer: E

www.TestsNow.com Q: 212 A developer is designing a multi-tier web application and discovers a need to log each incoming client request. Which two patterns, taken independently, provide a solution for this problem? (Choose two.)

- A. Transfer Object
- B. Service Locator
- C. Front Controller
- D. Intercepting Filter
- E. Business Delegate
- F. Model-View-Controller

Answer: C, D

www.TestNow.com Q: 213 A developer is designing a multi-tier web application and discovers a need to hide the details of establishing and maintaining remote communications from the client. In addition, because the business and resource tiers are distributed, the application needs to minimize the inter-tier network traffic related to servicing client requests. Which design patterns, working together, address these issues?

- A. Front Controller and Transfer Object
- B. Front Controller and Service Locator
- C. Business Delegate and Transfer Object
- D. Business Delegate and Intercepting Filter
- E. Model-View-Controller and Intercepting Filter

Answer: C

www.TestNow.com Q: 214 Click the Task button.

Place the servlet name onto every request URL, relative to the web application context root, that will invoke that servlet. Every request URL must be filled.

Drag and Drop

Given the servlets and their path patterns:

Servlet Name	Path Pattern
ControlServlet	*.do
DataServlet	/data/*

Place the servlet name onto every request URL, relative to the web application context root, that will invoke that servlet. Every request URL must be filled.

Request URL	Servlet Name
/data/	ControlServlet
/data/index.jsp	DataServlet
/secure/command.do	
/data/command.do	
/data.do	

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 215 Given a portion of a valid Java EE web application's directory structure:

```

MyApp
|
|-- File1.html
|
|-- Directory1
|   |-- File2.html |
|-- META-INF
|   |-- File3.html

```

You want to know whether File1.html, File2.html, and/or File3.html will be directly accessible by your web client's browsers.

Which statement is true?

- A. All three files are directly accessible.
- B. Only File1.html is directly accessible.
- C. Only File2.html is directly accessible.
- D. Only File3.html is directly accessible.
- E. Only File1.html and File2.html are directly accessible.
- F. Only File1.html and File3.html are directly accessible.
- G. Only File2.html and File3.html are directly accessible.

Answer: E

www.TestNews.com Q: 216 Which three are described in the standard web application deployment descriptor? (Choose three.)

- A. session configuration
- B. MIME type mappings
- C. context root for the application
- D. servlet instance pool configuration
- E. web container default port bindings
- F. ServletContext initialization parameters

Answer: A, B, F

www.TestNews.com Q: 217 You have created a servlet that generates weather maps. The data for these maps is calculated by a remote host. The IP address of this host is usually stable, but occasionally does have to change as the corporate network grows and changes. This IP address used to be hard coded, but after the fifth change to the IP address in two years, you have decided that this value should be declared in the deployment descriptor so you do NOT have to recompile the web application every time the IP address changes. Which deployment descriptor snippet accomplishes this goal?

- A. `<servlet-param>`
`<name>WeatherServlet.hostIP</name>`
`<value>127.0.4.20</value>`
`</servlet-param>`
- B. `<init-param>`
`<name>WeatherServlet.hostIP</name>`
`<value>127.0.4.20</value>`

```
</init-param>
C. <servlet>
<!-- servlet definition here -->
<param-name>WeatherServlet.hostIP</param-name>
<param-value>127.0.4.20</param-value>
</servlet>
D. <init-param>
<param-name>WeatherServlet.hostIP</param-name>
<param-value>127.0.4.20</param-value>
</init-param>
E. <servlet-param>
<param-name>WeatherServlet.hostIP</param-name>
<param-value>127.0.4.20</param-value>
</servlet-param>
```

Answer: D

www.TestNow.com Q: 218 In which two locations can library dependencies be defined for a web application? (Choose two.)

- A. the web application deployment descriptor
- B. the /META-INF/dependencies.xml file
- C. the /META-INF/MANIFEST.MF manifest file
- D. the /META-INF/MANIFEST.MF manifest of a JAR in the web application classpath

Answer: C, D

www.TestNow.com Q: 219 Which two about WAR files are true? (Choose two.)

- A. WAR files must be located in the web application library directory.
- B. WAR files must contain the web application deployment descriptor.
- C. WAR files must be created by using archive tools designed specifically for that purpose.
- D. The web container must serve the content of any META-INF directory located in a WAR file.
- E. The web container must allow access to resources in JARs in the web application library directory.

Answer: B, E

www.TestNow.com Q: 220 Given this fragment from a Java EE deployment descriptor:

- 341. <error-page>
- 342. <exception-type>java.lang.Throwable</exception-type>

343. <location>/mainError.jsp</location>
344. </error-page>
345. <error-page>
346. <exception-type>java.lang.ClassCastException</exception-type>
347. <location>/castError.jsp</location>
348. </error-page>

If the web application associated with the fragment above throws a ClassCastException.

Which statement is true?

- A. The deployment descriptor is invalid.
- B. The container invokes mainError.jsp.
- C. The container invokes castError.jsp.
- D. Neither mainError.jsp nor castError.jsp is invoked.

Answer: C

www.TestNews.com Q: 221 Which defines the welcome files in a web application deployment descriptor?

- A. <welcome>
<welcome-file>/welcome.jsp</welcome-file>
</welcome>
<welcome>
<welcome-file>/index.html</welcome-file>
</welcome>
- B. <welcome-file-list>
<welcome-file>welcome.jsp</welcome-file>
<welcome-file>index.html</welcome-file>
</welcome-file-list>
- C. <welcome>
<welcome-file>welcome.jsp</welcome-file>
</welcome>
<welcome>
<welcome-file>index.html</welcome-file>
</welcome>
- D. <welcome-file-list>
<welcome-file>/welcome.jsp</welcome-file>
<welcome-file>/index.html</welcome-file>
</welcome-file-list>
- E. <welcome>
<welcome-file>

```
<welcome-name>Welcome</welcome-name>
<location>welcome.jsp</location>
</welcome-file>
<welcome-file>
<welcome-name>Index</welcome-name>
<location>index.html</location>
</welcome-file>
</welcome>
```

Answer: B

www.TestNews.com Q: 222 Click the Exhibit button.

Assume the product attribute does NOT yet exist in any scope.

Which two create an instance of com.example.Product and initialize the name and price properties to the name and price request parameters? (Choose two.)

```

1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }

```

- A. `<jsp:useBean id="product" class="com.example.Product" />`
`<jsp:setProperty name="product" property="*" />`
- B. `<jsp:useBean id="product" class="com.example.Product" />`
`<% product.setName(request.getParameter("name")); %>`
`<% product.setPrice(request.getParameter("price")); %>`
- C. `<jsp:useBean id="product" class="com.example.Product" />`
`<jsp:setProperty name="product" property="name"`
`value="{param.name}" />`
`<jsp:setProperty name="product" property="price"`

```
value="${param.price}" />  
D. <jsp:useBean id="product" class="com.example.Product">  
<jsp:setProperty name="product" property="name"  
value="${name}" />  
<jsp:setProperty name="product" property="price"  
value="${price}" />  
</jsp:useBean>
```

Answer: A, C

www.TestsNow.com Q: 223 Click the Exhibit button.

A session-scoped attribute, product, is stored by a servlet. That servlet then forwards to a JSP page. This attribute holds an instance of the com.example.Product class with a name property of "The Matrix" and price property of 39.95.

Given the JSP page code snippet:

- 1. <jsp:useBean id='product' class='com.example.Product'>**
- 2. <jsp:setProperty name='product' property='price' value='49.95' />**
- 3. </jsp:useBean>**
- 4. <%= product.getName() %> costs <%= product.getPrice() %>**

What is the response output of this JSP page code snippet?


```
1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }
```

- A. Default costs 0.0
- B. Default costs 49.95
- C. Default costs 39.95
- D. The Matrix costs 0.0
- E. The Matrix costs 49.95
- F. The Matrix costs 39.95

Answer: B

www.TestNews.com Q: 224 Click the Exhibit button.

A servlet sets a session-scoped attribute product with an instance of com.example.Product and forwards to a JSP.

Which two output the name of the product in the response? (Choose two.)

```
1. package com.example;
2.
3. public class Product {
4.     private String name;
5.     private double price;
6.
7.     public Product() {
8.         this( "Default", 0.0 );
9.     }
10.
11.     public Product( String name, double
price ) {
12.         this.name = name;
13.         this.price = price;
14.     }
15.
16.     public String getName() {
17.         return name;
18.     }
19.
20.     public void setName(String name) {
21.         this.name = name;
22.     }
23.
24.     public double getPrice() {
25.         return price;
26.     }
27.
28.     public void setPrice(double price) {
29.         this.price = price;
30.     }
31. }
```

A. \${product.name}

- B. `<jsp:getProperty name="product" property="name" />`
- C. `<jsp:useBean id="com.example.Product" />`
`<%= product.getName() %>`
- D. `<jsp:getProperty name="product" class="com.example.Product"`
`property="name" />`
- E. `<jsp:useBean id="product" type="com.example.Product">`
`<%= product.getName() %>`
`</jsp:useBean>`

Answer: A, B

www.TestNews.com Q: 225 You have built your own light-weight templating mechanism. Your servlets, which handle each request, dispatch the request to one of a small set of template JSP pages. Each template JSP controls the layout of the view by inserting the header, body, and footer elements into specific locations within the template page. The URLs for these three elements are stored in request-scoped variables called, headerURL, bodyURL, and footerURL, respectively. These attribute names are never used for other purposes. Which JSP code snippet should be used in the template JSP to insert the JSP content for the body of the page?

- A. `<jsp:insert page='${bodyURL}' />`
- B. `<jsp:insert file='${bodyURL}' />`
- C. `<jsp:include page='${bodyURL}' />`
- D. `<jsp:include file='${bodyURL}' />`
- E. `<jsp:insert page='<%= bodyURL %>' />`
- F. `<jsp:include page='<%= bodyURL %>' />`

Answer: C

www.TestNews.com Q: 226 Given:

```

3. public class MyTagHandler extends TagSupport {
4.     public int doStartTag() {
5.         // insert code here
6.         // return an int
7.     }
8.     // more code here
...
18. }

```

There is a single attribute foo in the session scope.

Which three code fragments, inserted independently at line 5, return the value of the attribute? (Choose three.)

- A. `Object o = pageContext.getAttribute("foo");`
- B. `Object o = pageContext.findAttribute("foo");`
- C. `Object o = pageContext.getAttribute("foo",
PageContext.SESSION_SCOPE);`
- D. `HttpSession s = pageContext.getSession();
Object o = s.getAttribute("foo");`
- E. `HttpServletRequest r = pageContext.getRequest();
Object o = r.getAttribute("foo");`

Answer: B, C, D

www.TestNow.com Q: 227 You are creating a content management system (CMS) with a web application front-end. The JSP that displays a given document in the CMS has the following general structure:

- 1. `<%-- tag declaration --%>`
- 2. `<t:document>`
- ...
- 11. `<t:paragraph>... <t:citation docID='xyz' /> ...</t:paragraph>`
- ...
- 99. `</t:document>`

The citation tag must store information in the document tag for the document tag to generate a reference section at the end of the generated web page.

The document tag handler follows the Classic tag model and the citation tag handler follows the Simple tag model. Furthermore, the citation tag could also be embedded in other custom tags that could have either the Classic or Simple tag handler model.

Which tag handler method allows the citation tag to access the document tag?

- A. `public void doTag() {
JspTag docTag = findAncestorWithClass(this, DocumentTag.class);
((DocumentTag)docTag).addCitation(this.docID);
}`
- B. `public void doStartTag() {
JspTag docTag = findAncestorWithClass(this, DocumentTag.class);
((DocumentTag)docTag).addCitation(this.docID);
}`
- C. `public void doTag() {
Tag docTag = findAncestor(this, DocumentTag.class);
((DocumentTag)docTag).addCitation(this.docID);`

```
}  
D. public void doStartTag() {  
    Tag docTag = findAncestor(this, DocumentTag.class);  
    ((DocumentTag)docTag).addCitation(this.docID);  
}
```

Answer: A

www.TestNews.com Q: 228 Given:

```
6. <myTag:foo bar='42'>  
7. <%= "processing" %>  
8. </myTag:foo>
```

and a custom tag handler for foo which extends TagSupport.

Which two are true about the tag handler referenced by foo? (Choose two.)

- A. The doStartTag method is called once.
- B. The doAfterBody method is NOT called.
- C. The EVAL_PAGE constant is a valid return value for the doEndTag method.
- D. The SKIP_PAGE constant is a valid return value for the doStartTag method.
- E. The EVAL_BODY_BUFFERED constant is a valid return value for the doStartTag method.

Answer: A, C

www.TestNews.com Q: 229 Which two are true concerning the objects available to developers creating tag files? (Choose two.)

- A. The session object must be declared explicitly.
- B. The request and response objects are available implicitly.
- C. The output stream is available through the implicit outputStream object.
- D. The servlet context is available through the implicit servletContext object.
- E. The JspContext for the tag file is available through the implicit jspContext object.

Answer: B, E

www.TestsNow.com Q: 230 You web application uses a lot of Java enumerated types in the domain model of the application. Built into each enum type is a method, `getDisplay()`, which returns a localized, user-oriented string. There are many uses for presenting enums within the web application, so your manager has asked you to create a custom tag that iterates over the set of enum values and processes the body of the tag once for each value; setting the value into a page-scoped attribute called, `enumValue`. Here is an example of how this tag is used:

```
10. <select name='season'>
11. <t:everyEnum type='com.example.Season'>
12.   <option value='${enumValue}'>${enumValue.display}</option>
13. </t:everyEnum>
14. </select>
```

You have decided to use the Simple tag model to create this tag handler.

Which tag handler method will accomplish this goal?

- A.

```
public void doTag() throw JspException {
try {
for ( Enum value : getEnumValues() ) {
pageContext.setAttribute("enumValue", value);
getJspBody().invoke(getOut());
}
} (Exception e) { throw new JspException(e); }
}
```
- B.

```
public void doTag() throw JspException {
try {
for ( Enum value : getEnumValues() ) {
getJspContext().setAttribute("enumValue", value);
getJspBody().invoke(null);
}
} (Exception e) { throw new JspException(e); }
}
```
- C.

```
public void doTag() throw JspException {
try {
for ( Enum value : getEnumValues() ) {
getJspContext().setAttribute("enumValue", value);
getJspBody().invoke(getJspContext().getWriter());
}
} (Exception e) { throw new JspException(e); }
}
```
- D.

```
public void doTag() throw JspException {
try {
for ( Enum value : getEnumValues() ) {
pageContext.setAttribute("enumValue", value);
```

```
getJspBody().invoke(getJspContext().getWriter());  
}  
} (Exception e) { throw new JspException(e); }  
}
```

Answer: B

www.TestNow.com Q: 231 Which two statements are true about the security-related tags in a valid Java EE deployment descriptor? (Choose two.)

- A. Every <security-constraint> tag must have at least one <http-method> tag.
- B. A <security-constraint> tag can have many <web-resource-collection> tags.
- C. A given <auth-constraint> tag can apply to only one <web-resource-collection> tag.
- D. A given <web-resource-collection> tag can contain from zero to many <url-pattern> tags.
- E. It is possible to construct a valid <security-constraint> tag such that, for a given resource, no user roles can access that resource.

Answer: B, E

www.TestNow.com Q: 232 Which element of a web application deployment descriptor <security-constraint> element is required?

- A. <realm-name>
- B. <auth-method>
- C. <security-role>
- D. <transport-guarantee>
- E. <web-resource-collection>

Answer: E

www.TestNow.com Q: 233 Which two are required elements for the <web-resource-collection> element of a web application deployment descriptor? (Choose two.)

- A. <realm-name>
- B. <url-pattern>
- C. <description>
- D. <web-resource-name>
- E. <transport-guarantee>

Answer: B, D

www.TestNews.com Q: 234 Given:

```
3. class MyServlet extends HttpServlet {
4.     public void doPut(HttpServletRequest req,
        HttpServletResponse resp)
        throws ServletException, IOException {
5.         // servlet code here
6.         ...
7.     }
8. }
```

If the DD contains a single security constraint associated with MyServlet and its only <http-method> tags and <auth-constraint> tags are:

```
<http-method>GET</http-method>
<http-method>PUT</http-method>
<auth-constraint>Admin</auth-constraint>
```

Which four requests would be allowed by the container? (Choose four.)

- A. A user whose role is Admin can perform a PUT.
- B. A user whose role is Admin can perform a GET.
- C. A user whose role is Admin can perform a POST.
- D. A user whose role is Member can perform a PUT.
- E. A user whose role is Member can perform a POST.
- F. A user whose role is Member can perform a GET.

Answer: A, B, C, E

www.TestNews.com Q: 235 What is true about Java EE authentication mechanisms?

- A. If your deployment descriptor correctly declares an authentication type of CLIENT_CERT, your users must have a certificate from an official source before they can use your application.
- B. If your deployment descriptor correctly declares an authentication type of BASIC, the container automatically requests a user name and password whenever a user starts a new session.
- C. If you want your web application to support the widest possible array of browsers, and you want to perform authentication, the best choice of Java EE authentication mechanisms is DIGEST.
- D. To use Java EE FORM authentication, you must declare two HTML files in your deployment descriptor, and you must use a predefined action in the HTML file that handles your user's login.

Answer: D

www.TestNow.com Q: 236 Which two statements are true about using the isUserInRole method to implement security in a Java EE application? (Choose two.)

- A. It can be invoked only from the doGet or doPost methods.
- B. It can be used independently of the getRemoteUser method.
- C. Can return "true" even when its argument is NOT defined as a valid role name in the deployment descriptor.
- D. Using the isUserInRole method overrides any declarative authentication related to the method in which it is invoked.
- E. Using the isUserInRole method overrides any declarative authorization related to the method in which it is invoked.

Answer: B, C

www.TestNow.com Q: 237 Given an HttpServletRequest request and an HttpServletResponse response:

```
41. HttpSession session = null;
42. // insert code here
43. if(session == null) {
44. // do something if session does not exist
45. } else {
46. // do something if session exists
47. }
```

To implement the design intent, which statement must be inserted at line 42?

- A. session = response.getSession();
- B. session = request.getSession();
- C. session = request.getSession(true);
- D. session = request.getSession(false);
- E. session = request.getSession("jsessionId");

Answer: D

www.TestNow.com Q: 238 You need to store a floating point number, called Tsquare, in the session scope. Which two code snippets allow you to retrieve this value? (Choose two.)

- A. float Tsquare = session.getFloatAttribute("Tsquare");
- B. float Tsquare = (Float) session.getAttribute("Tsquare");

- C. float Tsquare = (float) session.getNumericAttribute("Tsquare");
- D. float Tsquare = ((Float) session.getAttribute("Tsquare")).floatValue();
- E. float Tsquare = ((Float) session.getFloatAttribute("Tsquare")).floatValue();
- F. float Tsquare = ((Float) session.getNumericAttribute("Tsquare")).floatValue();

Answer: B, D

www.TestNow.com Q: 239 A web application uses the HttpSession mechanism to determine if a user is "logged in." When a user supplies a valid user name and password, an HttpSession is created for that user.

The user has access to the application for only 15 minutes after logging in. The code must determine how long the user has been logged in, and if this time is greater than 15 minutes, must destroy the HttpSession.

Which method in HttpSession is used to accomplish this?

- A. getCreationTime
- B. invalidateAfter
- C. getLastAccessedTime
- D. getMaxInactiveInterval

Answer: A

www.TestNow.com Q: 240 Which method must be used to encode a URL passed as an argument to HttpServletResponse.sendRedirect when using URL rewriting for session tracking?

- A. ServletResponse.encodeURL
- B. HttpServletResponse.encodeURL
- C. ServletResponse.encodeRedirectURL
- D. HttpServletResponse.encodeRedirectURL

Answer: D

www.TestNow.com Q: 241 Which interface must a session attribute implement if it needs to be notified when a web container persists a session?

- A. javax.servlet.http.HttpSessionListener
- B. javax.servlet.http.HttpSessionBindingListener
- C. javax.servlet.http.HttpSessionAttributeListener

D. `javax.servlet.http.HttpSessionActivationListener`

Answer: D

www.TestNow.com Q: 242 What is the purpose of session management?

- A. To manage the user's login and logout activities.
- B. To store information on the client-side between HTTP requests.
- C. To store information on the server-side between HTTP requests.
- D. To tell the web container to keep the HTTP connection alive so it can make subsequent requests without the delay of making the TCP connection.

Answer: C

www.TestNow.com Q: 243 You need to store a Java long primitive attribute, called customerOID, into the session scope. Which two code snippets allow you to insert this value into the session? (Choose two.)

- A. `long customerOID = 47L;`
`session.setAttribute("customerOID", new Long(customerOID));`
- B. `long customerOID = 47L;`
`session.setLongAttribute("customerOID", new Long(customerOID));`
- C. `long customerOID = 47L;`
`session.setAttribute("customerOID", customerOID);`
- D. `long customerOID = 47L;`
`session.setNumericAttribute("customerOID", new Long(customerOID));`
- E. `long customerOID = 47L;`
`session.setLongAttribute("customerOID", customerOID);`
- F. `long customerOID = 47L;`
`session.setNumericAttribute("customerOID", customerOID);`

Answer: A, C

www.TestNow.com Q: 244 Click the Exhibit button.

Assuming the tag library in the exhibit is imported with the prefix forum, which custom tag invocation produces a translation error in a JSP page?

```

1. <?xml version="1.0" encoding="UTF-8" ?>
2.
3. <taglib
xmlns="http://java.sun.com/xml/ns/j2ee"
4.   xmlns:xsi="http://www.w3.org/2001/XMLSchema
a-instance"
5.   xsi:schemaLocation="http://java.sun.com/xml
l/ns/j2ee web-jsptaglibrary_2_0.xsd"
6.   version="2.0">
7.   <tlib-version>1.0</tlib-version>
8.   <short-name>forum</short-name>
9.   <uri>http://example.com/tld/forum</uri>
10.  <tag>
11.    <name>message</name>
12.
<tag-class>com.example.MessageTag</tag-class>
13.
<body-content>scriptless</body-content>
14.   <attribute>
15.     <name>from</name>
16.     <rtexprvalue>true</rtexprvalue>
17.   </attribute>
18.   <attribute>
19.     <name>subject</name>
20.     <required>false</required>
21.     <rtexprvalue>true</rtexprvalue>
22.   </attribute>
23. </tag>
24. </taglib>

```

- A. <forum:message from="My Name" subject="My Subject" />
- B. <forum:message subject="My Subject">
My message body.
</forum:message>
- C. <forum:message from="My Name" subject="{param.subject}">
{param.body}
</forum:message>
- D. <forum:message from="My Name" subject="My Subject">
<%= request.getParameter("body") %>
</forum:message>
- E. <forum:message from="My Name"
subject="<%= request.getParameter("subject") %>">

My message body.
</forum:message>

Answer: D

www.TestNews.com Q: 245 Given in a single JSP page:

```
<% @ taglib prefix='java' uri='myTags' %>
<% @ taglib prefix='JAVA' uri='moreTags' %>
```

Which two are true? (Choose two.)

- A. The prefix 'java' is reserved.
- B. The URI 'myTags' must be properly mapped to a TLD file by the web container.
- C. A translation error occurs because the prefix is considered identical by the web container.
- D. For the tag usage <java:tag1/>, the tag1 must be unique in the union of tag names in 'myTags' and 'moreTags'.

Answer: A, B

www.TestNews.com Q: 246 In a JSP-centric shopping cart application, you need to move a client's home address of the Customer object into the shipping address of the Order object. The address data is stored in a value object class called Address with properties for: street address, city, province, country, and postal code. Which two JSP code snippets can be used to accomplish this goal? (Choose two.)

- A. <c:set var='order' property='shipAddress' value='\${client.homeAddress}' />
- B. <c:set target='\${order}' property='shipAddress' value='\${client.homeAddress}' />
- C. <jsp:setProperty name='\${order}' property='shipAddress' value='\${client.homeAddress}' />
- D. <c:set var='order' property='shipAddress'><jsp:getProperty name='client' property='homeAddress' /></c:set>
- E. <c:set target='\${order}' property='shipAddress'><jsp:getProperty name='client' property='homeAddress' /></c:set>
- F. <c:setProperty name='\${order}' property='shipAddress'><jsp:getProperty name='client' property='homeAddress' /></c:setProperty>

Answer: B, E

www.TestNow.com Q: 247 Given that a scoped attribute `cart` exists only in a user's session, which two, taken independently, ensure the scoped attribute `cart` no longer exists? (Choose two.)

- A. `${cart = null}`
- B. `<c:remove var="cart" />`
- C. `<c:remove var="${cart}" />`
- D. `<c:remove var="cart" scope="session" />`
- E. `<c:remove scope="session">cart</c:remove>`
- F. `<c:remove var="${cart}" scope="session" />`
- G. `<c:remove scope="session">${cart}</c:remove>`

Answer: B, D

www.TestNow.com Q: 248 In which three directories, relative to a web application's root, may a tag library descriptor file reside when deployed directly into a web application? (Choose three.)

- A. `/WEB-INF`
- B. `/META-INF`
- C. `/WEB-INF/tlds`
- D. `/META-INF/tlds`
- E. `/WEB-INF/resources`
- F. `/META-INF/resources`

Answer: A, C, E

www.TestNow.com Q: 249 You have been contracted to create a web site for a free dating service. One feature is the ability for one client to send a message to another client, which is displayed in the latter client's private page. Your contract explicitly states that security is a high priority. Therefore, you need to prevent cross-site hacking in which one user inserts JavaScript code that is then rendered and invoked when another user views that content. Which two JSTL code snippets will prevent cross-site hacking in the scenario above? (Choose two.)

- A. `<c:out>${message}</c:out>`
- B. `<c:out value='${message}' />`
- C. `<c:out value='${message}' escapeXml='true' />`
- D. `<c:out eliminateXml='true'>${message}</c:out>`
- E. `<c:out value='${message}' eliminateXml='true' />`

Answer: B, C

www.TestNow.com Q: 250 A custom tag is defined to take three attributes. Which two correctly invoke the tag within a JSP page? (Choose two.)

- A. `<prefix:myTag a="foo" b="bar" c="baz" />`
- B. `<prefix:myTag attributes={ "foo", "bar", "baz" } />`
- C. `<prefix:myTag jsp:attribute a="foo" b="bar" c="baz" />`
- D. `<prefix:myTag>`
`<jsp:attribute a:foo b:bar c:baz />`
`</prefix:myTag>`
- E. `<prefix:myTag>`
`<jsp:attribute ${ "foo", "bar", "baz" } />`
`</prefix:myTag>`
- F. `<prefix:myTag>`
`<jsp:attribute a="foo" b="bar" c="baz"/>`
`</prefix:myTag>`
- G. `<prefix:myTag>`
`<jsp:attribute name="a">foo</jsp:attribute>`
`<jsp:attribute name="b">bar</jsp:attribute>`
`<jsp:attribute name="c">baz</jsp:attribute>`
`</prefix:myTag>`

Answer: A, G

www.TestNow.com Q: 251 Which two are true about the JSTL core iteration custom tags? (Choose two.)

- A. It may iterate over arrays, collections, maps, and strings.
- B. The body of the tag may contain EL code, but not scripting code.
- C. When looping over collections, a loop status object may be used in the tag body.
- D. It may iterate over a map, but only the key of the mapping may be used in the tag body.
- E. When looping over integers (for example `begin='1'` `end='10'`), a loop status object may not be used in the tag body.

Answer: A, C

www.TestNow.com Q: 252 Which two are valid and equivalent? (Choose two.)

- A. `<%! int i; %>`
- B. `<%= int i; %>`

- C. `<jsp:expr>int i;</jsp:expr>`
- D. `<jsp:scriptlet>int i;</jsp:scriptlet>`
- E. `<jsp:declaration>int i;</jsp:declaration>`

Answer: A, E

www.TestsNow.com Q: 253 The JSP developer wants a comment to be visible in the final output to the browser. Which comment style needs to be used in a JSP page?

- A. `<!-- this is a comment -->`
- B. `<% // this is a comment %>`
- C. `<%-- this is a comment --%>`
- D. `<% /** this is a comment **/ %>`

Answer: A

www.TestsNow.com Q: 254 Which is a benefit of precompiling a JSP page?

- A. It avoids initialization on the first request.
- B. It provides the ability to debug runtime errors in the application.
- C. It provides better performance on the first request for the JSP page.
- D. It avoids execution of the `_jspService` method on the first request.

Answer: C

www.TestsNow.com Q: 255 Given `tutorial.jsp`:

- 2. `<h1>EL Tutorial</h1>`
- 3. `<h2>Example 1</h2>`
- 4. `<p>`
- 5. `Dear ${my:nickname(user)}`
- 6. `</p>`

Which, when added to the web application deployment descriptor, ensures that line 5 is included verbatim in the JSP output?

- A. `<jsp-config>`
`<url-pattern>*.jsp</url-pattern>`
`<el-ignored>true</el-ignored>`
`</jsp-config>`

- B. `<jsp-config>`
`<url-pattern>*.jsp</url-pattern>`
`<isELIgnored>true</isELIgnored>`
`</jsp-config>`
- C. `<jsp-config>`
`<jsp-property-group>`
`<el-ignored>*.jsp</el-ignored>`
`</jsp-property-group>`
`</jsp-config>`
- D. `<jsp-config>`
`<jsp-property-group>`
`<url-pattern>*.jsp</url-pattern>`
`<el-ignored>true</el-ignored>`
`</jsp-property-group>`
`</jsp-config>`
- E. `<jsp-config>`
`<jsp-property-group>`
`<url-pattern>*.jsp</url-pattern>`
`<isELIgnored>true</isELIgnored>`
`</jsp-property-group>`
`</jsp-config>`

Answer: D

www.TestNow.com Q: 256 In a JSP-centric web application, you need to create a catalog browsing JSP page. The catalog is stored as a List object in the catalog attribute of the webapp's ServletContext object. Which scriptlet code snippet gives you access to the catalog object?

- A. `<% List catalog = config.getAttribute("catalog"); %>`
- B. `<% List catalog = context.getAttribute("catalog"); %>`
- C. `<% List catalog = application.getAttribute("catalog"); %>`
- D. `<% List catalog = servletContext.getAttribute("catalog"); %>`

Answer: C

www.TestNow.com Q: 257 You are building your own layout mechanism by including dynamic content for the page's header and footer sections. The footer is always static, but the header generates the `<title>` tag that requires the page name to be specified dynamically when the header is imported. Which JSP code snippet performs the import of the header content?

- A. `<jsp:include page='/WEB-INF/jsp/header.jsp'>`
`<jsp:param name='pageName' value='Welcome Page' />`

</jsp:include>
B. <jsp:import page='/WEB-INF/jsp/header.jsp'>
<jsp:param name='pageName' value='Welcome Page' />
</jsp:import>
C. <jsp:include page='/WEB-INF/jsp/header.jsp'>
<jsp:attribute name='pageName' value='Welcome Page' />
</jsp:include>
D. <jsp:import page='/WEB-INF/jsp/header.jsp'>
<jsp:attribute name='pageName' value='Welcome Page' />
</jsp:import>

Answer: A

www.TestNow.com Q: 258 Which ensures that a JSP response is of type "text/plain"?

- A. <%@ page mimeType="text/plain" %>
- B. <%@ page contentType="text/plain" %>
- C. <%@ page pageEncoding="text/plain" %>
- D. <%@ page contentEncoding="text/plain" %>
- E. <% response.setEncoding("text/plain"); %>
- F. <% response.setContentType("text/plain"); %>

Answer: B

www.TestNow.com Q: 259 Your web application uses a simple architecture in which servlets handle requests and then forward to a JSP using a request dispatcher. You need to pass information calculated in the servlet to the JSP for view generation. This information must NOT be accessible to any other servlet, JSP or session in the webapp. Which two techniques can you use to accomplish this goal? (Choose two.)

- A. Add attributes to the session object.
- B. Add attributes on the request object.
- C. Add parameters to the request object.
- D. Use the pageContext object to add request attributes.
- E. Add parameters to the JSP's URL when generating the request dispatcher.

Answer: B, E

www.TestsNow.com Q: 260 All of your JSPs need to have a link that permits users to email the web master. This web application is licensed to many small businesses, each of which have a different email address for the web master. You have decided to use a context parameter that you specify in the deployment descriptor, like this:

- 42. `<context-param>`
- 43. `<param-name>webmasterEmail</param-name>`
- 44. `<param-value>master@example.com</param-value>`
- 45. `</context-param>`

Which JSP code snippet creates this email link?

- A. `contact us`
- B. `contact us`
- C. `contact us`
- D. `contact us`

Answer: D

www.TestsNow.com Q: 261 Which three are true about servlet filters? (Choose three.)

- A. A filter must implement the destroy method.
- B. A filter must implement the doFilter method.
- C. A servlet may have multiple filters associated with it.
- D. A servlet that is to have a filter applied to it must implement the javax.servlet.FilterChain interface.
- E. A filter that is part of a filter chain passes control to the next filter in the chain by invoking the FilterChain.forward method.
- F. For each `<filter>` element in the web application deployment descriptor, multiple instances of a filter may be created by the web container.

Answer: A, B, C

www.TestsNow.com Q: 262 Click the Task button.

Place the XML elements in the web application deployment descriptor solution to configure a servlet context event listener named com.example.MyListener.

Place the XML elements in the web application deployment descriptor solution to configure a servlet context event listener named com.example.MyListener.

Web Application Deployment Descriptor Solution

< >

< > com.example.MyListener </ >

</ >

XML Elements

class	listener-resource
listener	servlet-listener
context-listener	listener-class
class-name	resource-class

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 263 Which is true about the web container request processing model?

- A. The init method on a filter is called the first time a servlet mapped to that filter is invoked.
- B. A filter defined for a servlet must always forward control to the next resource in the filter chain.
- C. Filters associated with a named servlet are applied in the order they appear in the web application deployment descriptor file.
- D. If the init method on a filter throws an UnavailableException, then the container will make no further attempt to execute it.

Answer: C

www.TestsNow.com Q: 264 Your IT department is building a lightweight Front Controller servlet that invokes an application logic object with the interface:

```
public interface ApplicationController {  
    public String invoke(HttpServletRequest request)  
}
```

The return value of this method indicates a symbolic name of the next view. From this name, the Front Controller servlet looks up the JSP URL in a configuration table. This URL might be an absolute path or a path relative to the current request. Next, the Front Controller servlet must send the request to this JSP to generate the view. Assume that the servlet variable request is assigned the current HttpServletRequest object and the variable context is assigned the webapp's ServletContext.

Which code snippet of the Front Controller servlet accomplishes this goal?

- A. Dispatcher view
= context.getDispatcher(viewURL);
view.forwardRequest(request, response);
- B. Dispatcher view
= request.getDispatcher(viewURL);
view.forwardRequest(request, response);
- C. RequestDispatcher view
= context.getRequestDispatcher(viewURL);
view.forward(request, response);
- D. RequestDispatcher view
= request.getRequestDispatcher(viewURL);
view.forward(request, response);

Answer: D

www.TestsNow.com Q: 265 Given that a web application consists of two HttpServlet classes, ServletA and ServletB, and the ServletA.service method:

```
20. String key = "com.example.data";  
21. session.setAttribute(key, "Hello");  
22. Object value = session.getAttribute(key);  
23.
```

Assume session is an HttpSession, and is not referenced anywhere else in ServletA.

Which two changes, taken together, ensure that value is equal to "Hello" on line 23? (Choose two.)

- A. ensure that the ServletB.service method is synchronized

- B. ensure that the ServletA.service method is synchronized
- C. ensure that ServletB synchronizes on the session object when setting session attributes
- D. enclose lines 21-22 in a synchronized block:

```
synchronized(this) {
    session.setAttribute(key, "Hello");
    value = session.getAttribute(key);
}
```
- E. enclose lines 21-22 in a synchronized block:

```
synchronized(session) {
    session.setAttribute(key, "Hello");
    value = session.getAttribute(key);
}
```

Answer: C, E

www.TestNow.com Q: 266 Which retrieves all cookies sent in a given HttpServletRequest request?

- A. request.getCookies()
- B. request.getAttributes()
- C. request.getSession().getCookies()
- D. request.getSession().getAttributes()

Answer: A

www.TestNow.com Q: 267 Your company has a corporate policy that prohibits storing a customer's credit card number in any corporate database. However, users have complained that they do NOT want to re-enter their credit card number for each transaction. Your management has decided to use client-side cookies to record the user's credit card number for 120 days. Furthermore, they also want to protect this information during transit from the web browser to the web container; so the cookie must only be transmitted over HTTPS. Which code snippet creates the "creditCard" cookie and adds it to the out going response to be stored on the user's web browser?

- A. 10. Cookie c = new Cookie("creditCard", usersCard);
 11. c.setSecure(true);
 12. c.setAge(10368000);
 13. response.addCookie(c);
- B. 10. Cookie c = new Cookie("creditCard", usersCard);
 11. c.setHttps(true);
 12. c.setMaxAge(10368000);
 13. response.setCookie(c);
- C. 10. Cookie c = new Cookie("creditCard", usersCard);
 11. c.setSecure(true);

12. c.setMaxAge(10368000);
13. response.addCookie(c);
D. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setHttps(true);
12. c.setAge(10368000);
13. response.addCookie(c);
E. 10. Cookie c = new Cookie("creditCard", usersCard);
11. c.setSecure(true);
12. c.setAge(10368000);
13. response.setCookie(c);

Answer: C

www.TestNow.com Q: 268 Click the Task button.

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

Drag and Drop

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

HttpServletRequest Method	URI Segment
getServletPath	/myapp
getPathInfo	/control
getContext	/processorder

Done

Answer: Check TestNow's eEngine, Download from Member Center

www.TestNow's.com Q: 269 A web browser need NOT always perform a complete request for a particular page that it suspects might NOT have changed. The HTTP specification provides a mechanism for the browser to retrieve only a partial response from the web server; this response includes information, such as the Last-Modified date but NOT the body of the page. Which HTTP method will the browser use to retrieve such a partial response?

- A. GET
- B. ASK
- C. SEND
- D. HEAD
- E. TRACE
- F. OPTIONS

Answer: D

www.TestNow.com Q: 270 You are creating a servlet that generates stock market graphs. You want to provide the web browser with precise information about the amount of data being sent in the response stream. Which two `HttpServletResponse` methods will you use to provide this information? (Choose two.)

- A. `response.setLength(numberOfBytes);`
- B. `response.setContentLength(numberOfBytes);`
- C. `response.setHeader("Length", numberOfBytes);`
- D. `response.setIntHeader("Length", numberOfBytes);`
- E. `response.setHeader("Content-Length", numberOfBytes);`
- F. `response.setIntHeader("Content-Length", numberOfBytes);`

Answer: B, F

www.TestNow.com Q: 271 Which two prevent a servlet from handling requests? (Choose two.)

- A. The servlet's `init` method returns a non-zero status.
- B. The servlet's `init` method throws a `ServletException`.
- C. The servlet's `init` method sets the `ServletResponse`'s content length to 0.
- D. The servlet's `init` method sets the `ServletResponse`'s content type to null.
- E. The servlet's `init` method does NOT return within a time period defined by the servlet container.

Answer: B, E

www.TestNow.com Q: 272 A web application allows the HTML title banner to be set using a servlet context initialization parameter called `titleStr`. Which two properly set the title in this scenario? (Choose two.)

- A. `<title>${titleStr}</title>`
- B. `<title>${initParam.titleStr}</title>`
- C. `<title>${params[0].titleStr}</title>`
- D. `<title>${paramValues.titleStr}</title>`
- E. `<title>${initParam['titleStr']}</title>`
- F. `<title>${servletParams.titleStr}</title>`
- G. `<title>${request.get("titleStr")}</title>`

Answer: B, E

www.TestNews.com Q: 273 You are building a dating service web site. Part of the form to submit a client's profile is a group of radio buttons for the person's hobbies:

- 20. `<input type='radio' name='hobbyEnum' value='HIKING'>Hiking
`
- 21. `<input type='radio' name='hobbyEnum' value='SKIING'>Skiing
`
- 22. `<input type='radio' name='hobbyEnum' value='SCUBA'>SCUBA Diving`
- 23. `<!-- and more options -->`

After the user submits this form, a confirmation screen is displayed with these hobbies listed. Assume that an application-scoped variable, hobbies, holds a map between the Hobby enumerated type and the display name.

Which EL code snippet will display Nth element of the user's selected hobbies?

- A. `${hobbies[hobbyEnum[N]]}`
- B. `${hobbies[paramValues.hobbyEnum[N]]}`
- C. `${hobbies[paramValues@'hobbyEnum'@N]}`
- D. `${hobbies.get(paramValues.hobbyEnum[N])}`
- E. `${hobbies[paramValues.hobbyEnum.get(N)]}`

Answer: B

www.TestNews.com Q: 274 Given a web application in which the request parameter productID contains a product identifier. Which two EL expressions evaluate the value of the productID? (Choose two.)

- A. `${productID}`
- B. `${param.productID}`
- C. `${params.productID}`
- D. `${params.productID[1]}`
- E. `${paramValues.productID}`
- F. `${paramValues.productID[0]}`
- G. `${pageContext.request.productID}`

Answer: B, F

www.TestNews.com Q: 275 You are building a web application with a scheduling component. On the JSP, you need to show the current date, the date of the previous week, and the date of the next week. To help you present this information, you have created the following EL functions in the 'd' namespace:

name: curDate; signature: java.util.Date currentDate()

name: addWeek; signature: java.util.Date addWeek(java.util.Date, int)

name: dateString; signature: java.util.String getDateString(java.util.Date)

Which EL code snippet will generate the string for the previous week?

- A. `${d:dateString(addWeek(curDate(), -1))}`
- B. `${d:dateString[addWeek[curDate[], -1]]}`
- C. `${d:dateString[d:addWeek[d:curDate[], -1]]}`
- D. `${d:dateString(d:addWeek(d:curDate(), -1))}`

Answer: D

www.TestsNow.com Q: 276 You are building a dating web site. The client's date of birth is collected along with lots of other information. The Person class has a derived method, `getAge():int`, which returns the person's age calculated from the date of birth and today's date. In one of your JSPs you need to print a special message to clients within the age group of 25 through 35. Which two EL code snippets will return true for this condition? (Choose two.)

- A. `${client.age in [25,35]}`
- B. `${client.age between [25,35]}`
- C. `${client.age between 25 and 35}`
- D. `${client.age <= 35 && client.age >= 25}`
- E. `${client.age le 35 and client.age ge 25}`
- F. `${not client.age > 35 && client.age < 25}`

Answer: D, E