

310-083 SCWCD

SUN Sun Certified Web Component Developer for J2EE 5

310-083: Sun Certified Web Component Developer for J2EE 5

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Exam Number/Code: 310-083

Exam Name: Sun Certified Web Component Developer for J2EE 5

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Exam : SUN 310-083

Title : Sun Certified Web Component Developer for J2EE 5

1. <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

2. 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

3. 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

4. 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: BE

5. 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

6. `</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

7. 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: DF

8. 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

9. `<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

10. 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: BDE

11. 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

12. `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

13. }

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

14. 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

15. `<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

16. 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

17. <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

18. 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</taglib-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

19. }

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

20. Click the Exhibit button.

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

What is the result?

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

21. Click the Exhibit button.

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

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

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

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