

**Exam** : **310-081**

**Title** : Sun Certified Web  
Component Developer for  
J2EE 1.4

**Version** : Demo

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1. Place the events in the order they occur.

Order	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

Answer:

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

2. Under what two circumstances is the setJspBody method NOT called in a tag class that implements the SimpleTag interface? (Choose two.)

A. The tag is invoked without a body.

- B. The doTag method throws an exception.
- C. The element has the value empty.
- D. The tag is called with the attribute skip-body=true.

**Answer:** AC

3. 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:** DE

4. 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:** BDE

5. 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:** AC

6. 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**

```
<?xml version="1.0" encoding="UTF-8" ?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_3_0.xsd"
  version="3.0">
  <place here. >
    <place here. > com.example.MyListener </place here. >
  </place here. >
</web-app>
```

**XML Elements**

class	listener-resource
listener	servlet-listener
context-listener	listener-class
class-name	resource-class

**Answer:**

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### Web Application Deployment Descriptor Solution

```

< listener >
  < listener-class > com.example.MyListener </ listener-class >
</ listener >
    
```

### XML Elements

class	listener-resource
listener	servlet-listener
context-listener	listener-class
class-name	resource-class

7. 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**

8. 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: CE**

9. Place the code snippets onto the first line to form a directive to use a custom tag library in a JSP page.

**JSP Directive Line**

Place here.    Place here.    Place here.    Place here.    Place here.

**Code Snippets**

include	lib='myTags'	namespace='t'	<%@	uri='myTags'
<%	prefix='t'	<%!	taglib='myTags'	%>
taglib	@%>	name='t'	page	!%>

**Answer:**

**JSP Directive Line**

<%@    taglib    uri='myTags'    prefix='t'    %>

**Code Snippets**

include	lib='myTags'	namespace='t'	<%@	uri='myTags'
<%	prefix='t'	<%!	taglib='myTags'	%>
taglib	@%>	name='t'	page	!%>

10. 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

Answer:

### JSP Code:

<jsp:include

page='foo.jsp'

>

### Code Snippets:

import='foo.jsp'

>

file='foo.jsp'

<%@ include

<jsp:import

page='foo.jsp'

%>

<%@ import

<jsp:include

11. A developer wants to use EL to invoke a function using `${my:bloof("foof")}`.

Which is always true?

- A. The method invoked by this function must be static.
- B. The function class must implement the Function interface.
- C. The expression is NOT a valid EL expression for invoking a function.
- D. The function must be declared in a web.xml file using the `<function>` element.
- E. The function class must have a method with the signature:

Answer: A

12. A web resource called foo.jsp requires two request parameters (P1 and P2). Construct the JSP code to forward to the foo.jsp resource.

## JSP Filt

Place here.

Place here.

Place here.

Place here

## CO(It SUii•I•tt

```
<jsp:forward file='foo.iso',
```

```
<jsp:param name='P2' value='baz',,
```

```
<jsp:forward page='foo.jsp',,
```

```
<jsp:param name='P1' value='at' />
```

```
<jsp:forward
```

```
> <jsp:param name='P2' value='baz' /> <jsp:forward
```

```
<jsp:param name='P1' value='br' />
```

Answer:



## JSP File

```
<jsp:forward page='foo.jsp'>
```

```
<jsp:param name='P1' value='bar'>
```

```
<jsp:param name='P2' value='baz'>
```

```
</jsp:forward>
```

## Code Snippet

```
<jsp:forward file='foo.jsp'>
```

```
<jsp:param name='P2' value='baz'>
```

```
<jsp:forward page='foo.jsp'>
```

```
<jsp:param name='P1'>bar</jsp:param>
```

```
</jsp:forward>
```

```
<jsp:param name='P2'>baz</jsp:param>
```

```
<jsp:param name='P1' value='bar'>
```

13. A collection of products is stored in the ServletContext in an attribute called catalog.

Which JSTL code structure iterates over each product in the collection and prints out the names of the products in an un-ordered list?

A. <ul>

```
<c:for var='product' items='${catalog}'>
```

```
<li><%= product.getName() %></li>
```

```
</c:for>
```

```
</ul>
```

B. <ul>

```
<c:for id='product' collection='${catalog}'>
```

```
<li><%= product.getName() %></li>
```

```
</c:for>
```

```
</ul>
```

C.<ul>

```
<c:forEach var='product' items='${catalog}'>
```

```
<li><%= product.getName() %></li>
```

```
</c:forEach>
```

```
</ul>
```

D.<ul>

```
<c:forEach id='product' collection='${catalog}'>
```

```
<li><%= product.getName() %></li>
```

```
</c:forEach>
```

```
</ul>
```

**Answer: C**

14. Which HTTP method represents a request for information about the supported methods on an HTTP server?

A.GET

B.INFO

C.HEAD

D.TRACE

E.OPTIONS

**Answer: E**

15. Which HTTP method has the characteristic that multiple identical requests may produce side effects beyond those of a single request?

A.PUT

B.GET

C.INFO

D.POST

E.HEAD

F.TRACE

**Answer: D**

16. Given a servlet OrderServlet mapped to processorder, and a form declaration in HTML:

11. `<form action="processorder">`
12. `<input type="text" name="first_name">`
13. `<input type="text" name="last_name">`
14. `<input type="submit" value="Submit Order">`
15. `</form>`

What OrderServlet method is invoked as a result of this form submission?

- A.doGet
- B.doPut
- C.doPost
- D.doTrace
- E.doSubmit

**Answer: A**

17. Which two HTTP methods are used to process form data in a servlet? (Choose two.)

- A.doGet
- B.doPut
- C.doPost
- D.doTrace
- E.doSubmit
- F.doProcess

**Answer: AC**

18. Click the Exhibit button.

index.html:

16. `<from method = "GET" action = "MyServlet">`
17. `<input type= "text" name+ "foo">`
18. `<input type= "text" name = "foo">`
19. `<input type = "submit" >`
20. `</from>`

MyServlet.java:

```
6. public void doGet(HttpServletRequest request,  
7. HttpServletResponse response)  
8. throws IOException, ServletException {  
9. String first = request.getParameter("foo");  
10. String second;  
11. // your code here  
12. }
```

Which statement, inserted at line 11, retrieves the text from the second text field?

- A. second = request.getParameter("foo");
- B. second = request.getParameter("foo", 1);
- C. second = request.getParameter("foo", 2);
- D. second = request.getParameters("foo")[1];
- E. second = request.getParameterValues("foo")[1];

**Answer: E**

19. 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**

20. Given a header in an HTTP request:

X-Retries: 4

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

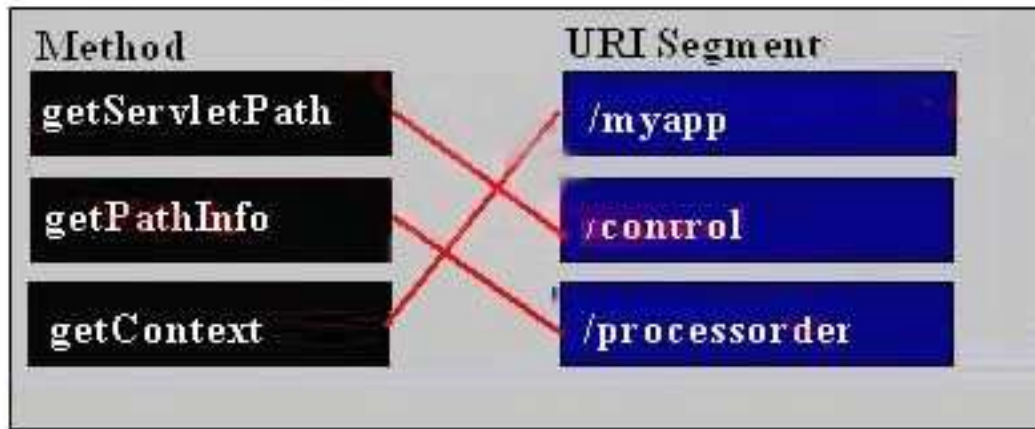
- A. request.getHeader("X-Retries")
- B. request.getIntHeader("X-Retries")
- C. request.getRequestHeader("X-Retries")
- D. request.getHeaders("X-Retries").get(0)
- E. request.getRequestHeaders("X-Retries").get(0)

**Answer: AB**

21. 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



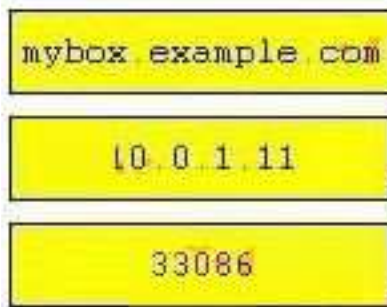
22. Given an HttpServletRequest request, which retrieves an object of type Account with an ID of "account"?

- A.Account account = request.getResource("account");
- B.Account account = request.getAttribute("account");
- C.Account account = request.getParameter("account");
- D.Account account = (Account)request.getResource("account");
- E.Account account = (Account)request.getAttribute("account");
- F.Account account = (Account)request.getParameter("account");

**Answer:** E

23. 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:**



24. 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**

25. 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 HttpHeaders("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:** AB

26. For a given ServletResponse response, which retrieves an object for writing binary data?

- A.response.getWriter()
- B.response.getOutputStream()
- C.response.getWriter()
- D.response.getWriter().getOutputStream()
- E.response.getWriter(Writer.OUTPUT\_BINARY)

**Answer:** B

27. 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()
- D.response.getWriter().getOutputStream()
- E.response.getWriter(Writer.OUTPUT\_TEXT)

lled with the attribute skip-body=true.

**Answer:** AB

28. 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

29. Given:



```
10. public void service(HttpServletRequest request,  
11.         HttpServletResponse response) {  
12.     // your code here  
13. }
```

Which code snippet inserted at line 12 causes the client to redirect to <http://www.example.com>?

- A. `response.sendRedirect("http://www.example.com");`
- B. `response.sendRedirect(new URL("http://www.example.com"));`
- C. `RequestDispatcher rd =  
 getServletContext().getRequestDispatcher(  
 "http://www.example.com");  
 rd.forward(request, response);`
- D. `RequestDispatcher rd =`

**Answer:** A

30. 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:** BE

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