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**QUESTION 1**

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.

Correct Answer: AD

QUESTION 2

A custom tag is defined to take three attributes. Which two correctly invoke the tag within a JSP page? (Choose two.)

- A.
- B.
- C.
- D.
- E.
- F.
- G. foobarbaz

Correct Answer: AG

QUESTION 3

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"]}`

Correct Answer: DE

QUESTION 4

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 = 25}`
- E. `${client.age le 35 and client.age ge 25}`
- F. `${not client.age > 35 and client.age`

Correct Answer: DE

QUESTION 5

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

Correct Answer: CD

**QUESTION 6**

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.
- D. `medium`
- E.
- F. `medium`
- G.

Correct Answer: DE

QUESTION 7

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`. Here is an example use of this tag and its output:

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}
```



Correct Answer: E

QUESTION 8

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.

Correct Answer: ABF

QUESTION 9

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

Correct Answer: CF

QUESTION 10

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 `outStream` 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.

Correct Answer: BE

QUESTION 11

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.
 - `{item}`
- B.
 - `{item}`
- C.
 - `{item}`
- D.
 - `{item}`

Correct Answer: D

QUESTION 12

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.

Correct Answer: BE

**QUESTION 13**

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.

43.

`prefsDbURL`

44.

45.

`jdbc:pointbase:server://dbhost:4747/prefsDB`

46.

47.

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}`

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}`



Correct Answer: C

QUESTION 14

The `sl:shoppingList` and `sl:item` tags output a shopping list to the response and are used as follows:

11.

12.

13.

14.

15.

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`.

Correct Answer: A

QUESTION 15

Which JSTL code snippet can be used to perform URL rewriting?



A. _

B. _

C. _

D. _

Correct Answer: C

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