

1. How would you retrieve the value of a header named **"User-Agent"**? (right)
 - a. `String header = request.getRequestHeader("User-Agent");`
 - b. `String header = request.getHeader("User-Agent");`
 - c. `String header = request.getIntHeader("User-Agent");`
 - d. `String header = request.getAttribute("User-Agent")`
2. The method **getWriter()** of **HttpServletResponse** returns an object of type _____ (right)
 - a. `HttpServletResponse`
 - b. `ServletOutputStream`
 - c. `ServletInputStream`
 - d. `PrintWriter`
3. Which of the following methods are not implemented by the **RequestDispatcher** interface? (right)
 - a. `dispatch()`
 - b. `redirect()`
 - c. `forward()`
 - d. `include()`
4. What is the return type of **getAttribute()** method of **HttpServletRequest**? (right)
 - a. `Object`
 - b. `String`
 - c. `Attribute`
 - d. None of the above
5. Which statements about session timeouts are true? (Choose all that apply.) (right)
 - a. Session timeout declarations made in the DD (web.xml) can specify time in seconds.
 - b. Session timeout declarations made in the DD (web.xml) can specify time in minutes.
 - c. Session timeout declarations made programmatically can specify time only in seconds.
 - d. Session timeout declarations made programmatically can specify time either in minutes or seconds.
6. If there are more than one text box with the same name in a form, then how will you retrieve the first value of the text box? (choose all possible options) (right)
 - a. `request.getParameter("textBoxName");`
 - b. `request.getParameterValues("textBoxName")[0];`
 - c. `request.getHeader("textBoxName");`
 - d. `request.getAttribute("textBoxName");`
7. Consider the following servlet code segment:

```
HttpSession session = request.getSession(true);
session.setAttribute("name", "Cognizant");
session.setMaxInactiveInterval(0);
if (session.isNew()) {
```

```
System.out.println(session.getAttribute("name"));
} else { System.out.println(session.isNew());
}
```

What is the output of the above code segment ? (right)

- a. Displays "Cognizant" always
 - b. Displays "false" always
 - c. Depends on whether the session is newly created or not
 - d. None of the above
8. Which of the following are valid inorder to set the session timeout period as 2 minutes? (right)
- a. `<session-timeout>2</session-timeout>`
 - b. `<session-timeout>120</session-timeout>`
 - c. `session.setMaxInactiveInterval(2);`
 - d. `session.setMaxInactiveInterval(120);`
9. How will you send a cookie as response? Which sets a cookie "name" with the value "Cognizant" in a Servlet(right)
- a. `response.setCookie("name", "Cognizant");`
 - b. `response.sendCookie("name", "Cognizant");`
 - c. `response.addCookie(new Cookie("name", "Cognizant"));`
 - d. `response.setCookie(new Cookie("name", "Cognizant"));`
10. Which of the following are used to retrieve the value associated to the parameter name provided within the `<init-param>` tag? (right)
- a. `getServletContext().getInitParameter(paramName);`
 - b. `getServletConfig().getInitParameter(paramName);`
 - c. `getServletContext().getParameter(paramName);`
 - d. `getServletConfig().getParameter(paramName);`
11. Which of the following are true? (right)
- a. ServletConfig is one per servlet
 - b. ServletConfig is one per web application
 - c. ServletContext is one per servlet
 - d. ServletContext is one per application
12. Which of the following are true?
- a. Context initialization parameters can be declared using `<init-param>`
 - b. `<servlet-mapping>` is a sub-element of `<servlet>`
 - c. `<load-on-startup>` is a sub-element of `<servlet>`
 - d. `<servlet-name>` is a sub-element of both `<servlet>` and `<servlet-mapping>`
13. Which of the following can store attributes?

- a. ServletResponse
- b. HttpServletRequest
- c. ServletContext
- d. HttpSession

14. Which **HTTP** methods are used to show the client what the server is receiving? (right)

- a. GET
- b. PUT
- c. TRACE
- d. OPTIONS

15. When declaring a listener in the DD, Which sub-elements of the <listener> element are required? (Choose all that apply.) (right)

- a. <listener-name>
- b. <listener-type>
- c. <listener-class>
- d. <listener-classname>

16. Given that request is an **HttpServletRequest**, which snippets create a session if one doesn't exist? (Choose all that apply.) (right)

- a. request.getSession();
- b. request.getSession(true);
- c. request.getSession(false);
- d. request.geNewtSession();

17. If a servlet is invoked using the **forward()** or **include()** method of **RequestDispatcher**, which methods of the servlet's request object can access that request attributes set by the container? (Choose all that apply.) (right)

- a. get_cookies()
- b. getAttribute()
- c. getRequestPath()
- d. getRequestAttribute()

18. You need to store a java long primitive attribute, called **customerOID**, into the session scope. Which two code snippets all you to insert this value into the session? (Choose two.) (right)

a.

```
long customerOID=45L;
```

```
session.setAttribute("customerOID",new Long(customerOID));
```

b.

```
long customerOID=45L;
```

```
session.setAttribute("customerOID",customerOID);
```

c.

```
long customerOID=45L;
```

```
session.setNumericAttribute("customerOID",new Long(customerOID));
```

d.

```
long customerOID=45L;
```

```
session.setLongAttribute("customerOID",customerOID);
```

19.

```
<%! int a=6; %>
```

```
<% int a=5; %>
```

```
<% int b=3; %>
```

Result is <%= a*b %>

What is the result of the above code segment? (right)

- a. Compilation error
- b. Will display 18
- c. Will display 15
- d. None of the above

20. Which of the following are valid?

a. <%= 2*3 %>

b. <%= (8*3) %>

c. <%= 3>5 %>

d. <%= int a=3; %>

21. Which of the following attributes of page directive are invalid? (right)

- a. isELIgnored
- b. session
- c. language
- d. isScriptingEnabled

22. Which of the following is used to import a class in a JSP file? (right)

- a. <% page import = " java.util.List" %>
- b. <%@ import file="java.util.List" %>
- c. <%@ import java.util.List %>
- d. None of the above

23. Which of the following describes the JSP life cycle process best?

- a. JSP page is translated to a servlet, servlet is loaded into memory, code is compiled, instance is created

- b. JSP page is translated to a servlet, code is compiled, servlet is loaded into memory, instance is created.
- c. JSP is compiled, JSP page is translated to a servlet, code is loaded, instance is created.
- d. JSP is loaded into memory, Code is compiled, instance is created.

24. Which of the following are JSP implicit objects?

- a. `pageContext`
- b. `application`
- c. `requestScope`
- d. `exception`

25. Which of the following are valid? (right)

- a. `<jsp:include page="Header.jsp"/>`
- b. `<jsp:include file="Header.jsp"/>`
- c. `<%@include file="Header.jsp"%>`
- d. `<%@include page="Header.jsp"%>`

26. Assume a class named Employee which has a property called **"empld"** which is of type int. **"employee"** is an attribute instance of Employee. Which of the following are legal ways of setting the **empld** field to Also assume that there is a parameter called **"empld"** with the value 10 available to the jsp as a request parameter? (right)

- a. `<jsp:setProperty name="employee" property="empld"/>`
- b. `<jsp:setProperty property="empld" value="10"/>`
- c. `<jsp:setProperty name="employee" property="*/>`
- d. `<jsp:setProperty name="employee" property="empld" param="empld"/>`

27. How will you retrieve the first value of request parameter "fname"? (Choose all options that apply) (right)

- a. `${param.fname}`
- b. `${requestParams.fname}`
- c. `${requestScope.fname}`
- d. `${paramValues.fname[0]}`

28. How will you access a servlet context initialization parameter named "company-name"? (right)

- a. `${init.company-name}`
- b. `${init['company-name']}`
- c. `${initParam["company-name"]}`
- d. `${contextParam.company-name}`

29. Consider the following servlet code segment:

```
Map map = new HashMap();
map.put("a", "1");
map.put("b", "2");
map.put("c", "3");
map.put("d", "4");
request.setAttribute("map", map);
String[] names = {"a", "b", "c", "d"};
request.setAttribute("names", names);
```

What does `${map[names[0]]}` return?

- a. a
- b. Nothing will be displayed
- c. 1
- d. None of the above

30. Which of the following EL implicit objects is not a Map?

- a. requestScope
- b. initParam
- c. headerValues
- d. pageContext

31.

```
<pref:tag1>
  <%= result %>
</pref:tag1>
```

Which of the following are valid for the `<body-content>` tag of `tag1`?

- a. JSP
- b. empty
- c. scriptless
- d. tag dependant

32. Using `c` to represent the JSTL library, which of the following produces the same result as `<%= var %>?` (Select one)

- a. `<c:var out=${var}>`
- b. `<c:out value=${var}>`
- c. `<c:out var="var">`
- d. `<c:expr value=var>`

33. Which attribute of `<c:if>` specifies the conditional expression? (Select one).

- a. cond
- b. check
- c. expr
- d. test

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

- a. `<a href='<c:url url="cognizant.jsp"/>'>`
- b. `<a href='<c:link url="cognizant.jsp"/>'>`
- c. `<a href='<c:url value="cognizant.jsp"/>'>`
- d. `<a href='<c:link value="cognizant.jsp"/>'>`

35. Which is the most efficient way of ensuring thread safety for session attributes which are being set and accessed in a servlet?

- a. Synchronize on the `doGet()` or `doPost()` method of the servlet

- b. Make the Servlet implement `SingleThreadModel`
 - c. Synchronize on the `HttpSession` object
 - d. Display a message on every web page instructing the user not to open a new browser window.
36. Which of the following are true?
- a. Making a servlet extend `ThreadSafeServlet` can ensure thread safety for all attributes et in the servlet
 - b. Local variables are thread safe
 - c. Servlet class instance variables are thread safe
 - d. Context attributes can be set in the deployment descriptor
37. Which of the following listeners are invoked when a session is created?
- a. `HttpSessionBindingListener`
 - b. `HttpListener`
 - c. `HttpSessionListener`
 - d. `HttpSessionAttributeListener`
38. Select the one design patterns which is a **Presentation Tier pattern**
- a. Service Locator
 - b. DAO
 - c. Front Controller
 - d. Session façade
39. You need to restrict the number of active database connections at a time to 1. Which is the best design pattern to apply?
- a. DAO
 - b. Front Controller
 - c. Intercepting Filter
 - d. Singleton
40. Identify model component in an **MVC** pattern
- a. JSP
 - b. Data Bean
 - c. `ActionServlet`
 - d. Browser
41. Using multiple JSP components to construct your view is an example of
- a. ViewHelper Pattern
 - b. Service Locator
 - c. Pattern Proxy Pattern
 - d. Composite View Pattern
42. How many times is the **init()** method called during the life of the servlet ?
- a. Only once

- b. Once for every request
- c. None if the init() method is over-ridden
- d. None

43. In Expression Language **$\${8 / 0}$** – displays Infinity (state true/false)

- a. True
- b. False

44. **POST** method is considered to be idempotent method (state true/false)

- c. True
- d. False

45. You need to identify the browser type from which client request is forwarded and perform action before further processing takes place in business logic. Which is the best way to achieve this?

- a. Use a filter class (Intercepting filter pattern)
- b. Use multiple if-else conditions in your business logic
- c. Use Business Delegate pattern
- d. Use composite view pattern

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