

1) page1.jsp is having some context elements, If control is forwarded from page1.jsp to page2.jsp then Is it possible to get data in page2.jsp?

a. yes, but in some condition not

b .No, but in some condition yes

c. yes

d. No

2)Which attribute is used for request before the servlet is invoked??

Servlet Request

HttpSessionListner

Servlet Context

HttpSessionBinding Listner

3)Which is true?

a. Jsp is faster than HTML

b. Jsp is first compile on server and then server send the plain html to client browser.

b. Jsp must contain java code

c. Jsp can be plain html.

5). Method getWriter of HttpServletResponse returns an object of type(Radio button)

a.ServletInputStream

b.Printwriter

c.ServletOutputStream

d.HttpServletResponse

6) If request is HttpServeletRequest, which snippet executes the session if one doesnt exist(choose two)

a.request.getSession(true);

b.request.getSession();

c.request.getSession(False);

d.request.getSession();

7) . Which of the following not implemented by the RequestDispatcher Interface(Choose two)

a.Forward

b.include

c.dispatch

d.Redirect

8) In the session no attribute with name “att” is not declared then what is the value of the \${true and arr[2]} (don’t know the answer)

a. false

b. gives exception

c. true

9)<c:if has which command?

a)expr

b)test

c)check

- d)cond
- 10) how to send cookie as part of response?
- a)response.addcookie(new cookie("smethng","smethng"));
 - b)response.setcookie(new cookie("smethng","smethng"));
 - 3)response.set(new cookie("smethng","smethng"));
- 11) your servlet class extends?
- a)servlet
 - b)generic servlet
 - c)http servlet
- 12)which listener is used to act before the page is loaded when the request is sent
- a)httpServletRequestListener
 - b)httpSessionBinding
 - c)httpSessionListener
- 13)which is used for switching function?
- a)<c: when(not sure)
 - b)<c: if
 - c)<c: foreach
 - d)<c:blah
- 14)choose two which are true(Please confirm this)
- a)a servlet can alone handle requests without jsp
 - b)a jsp can alone handle requests without servlet
 - c) a servlet need jsp to handle client requests
 - d) a jsp need servlet to handle client requests
- 15)which http method is used to send partial response
- a)get
 - b)post
 - c)trace
 - d)none
- 16)retrieving the value of address using param key word in EL
- a){param.address}
- 17) what is the output for below code:
- ```
<c:fortoken items="a,b,c,d,e" delims="," begin="0" end="4" step="2" var="alphabet">
<c:out value=${alphabet}>
```
- a. a,b,c
  - b. b,d(not sure)
  - c. a,c,e
  - d. c,d,e
- 18) How you can set session timeout for 2 minutes??
- a. <session-timeout>2</session-timeout>
  - b. Session.setMaxInactiveSession(120);
- 19) which method is overridden?(its like radio button for me)

a.jspinit()

b.jspdestroy()

c.\_jspservice()

d.none

20) True or false  $\{8/0\}=\text{infinity}$  — Ans:true

21) import as page derivative in jsp?

a. java class and package

b. jsp

c. any of the listed option

d. html

22) ) which http method is used by the server to show the client what information has been received?

a)put

b)get

c) options

d)trace

23) which is not attribute of directives?

a) isScriptingEnabled

b)language

c)session

24) ) How to access the variables fort in variable name using EL

a) `${name["fort"]}`

b) `${name.fort}`

25) 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();`

26) 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]}`

27) 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}`

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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. `dis`
- b. `patch()`
- c. `redirect()`
- d. `forward()`
- e. `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. getCookies()
- 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 (not sure)
- 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? (not sure)

- 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. 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
-

Which of the following method will call on requestDispatcher object to send the control to a servlet/jsp  
Forward()

Different categories of GoF design patterns.  
Behavioral, Structure, Creational.

NOT a Container feature  
Application controller

```
<servlet>
<servlet-name>Servlet1</servlet-name>
<servlet-class>myPackage.myServlet</servlet-class>
</servlet>
```

True statements:

It tells the container...

This code belongs to the....

It is a mapping between servlet name and fully....

A developer for company web site has been told that users may turn off cookie support in their browser....

The developers must ensure that every URL is properly encoded using the appropriate....

Element used to specify useful information about an initialization parameter of a servlet....  
Description

A JSP page needs to set the property of a given JavaBean to a value that is calculated with the JSP page.  
Value, property, name

During translation the script code is copied inside....  
The service method of generated servlet

You need to identify the browser type from which client request is forwarded and perform action before....  
Use a filter class...

Given in single JSP page:  
<%@taglib prefix='java' url='myTags' %>  
<%@taglib prefix=.....

Which of the following is true?

The prefix 'java' is reserved.

The URI 'myTags' must be properly mapped.....

What statements are true?

ServletContext is one per application

ServletConfig is one per servlet

Which one of the following is true?

A java bean can be accessed through JSP standard action.

Select correct EL codes to print the first element of an array named employArray.

`${employeeArray["0"]}`

`${employeeArray[0]}`

Where is JSP executed?

Server Machine

Servlet A receives a request that it forwards to servlet B within another web application in the same web container.....

ServletContext

The XYZ company has decided to port their web application to a new J2EE 1.5 container.....eliminate this duplicate code?

Business Delegate.

Which of the following are true about MVC architecture?

Servlet forms the controller part

Ease of Maintenance and promotes reusability

Servlets are the target of all requests.

What is default HTTP method?

GET

Identify the model component in an MVC pattern.

Data Bean

Which of the following statement is correct?

You override `init()` method to fetch the init params and.....

Which of the following statements are true with regards to URL writing?

None of the listed options

Server sends....

You encrypt...

You manually..

If no file name is specified in the URL, which tag is used.....

`<welcome-file-list>`

`<welcome-file>`.....

Chose the servlet code fragment that gets a binary stream for writing an image....

`ServletOutputStream out=response.getOutputStream();`

Front Controller is a presentation tier pattern...

True

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

PageContext

ServletConfig comes into picture \_\_\_\_\_  
After servlet is loaded.

\_\_\_\_\_ is runtime, container-managed object that evaluates custom actions during the execution of a JSP page.  
Tag handler.

User provides the value 31 in a textbox named "age". what will be the output....  
True.

Select the correct flow of Servlet Lifecycle.  
Loading->Instantiation->Initiaization->Execution->Destroy.

Given the JSP code:  
<% request.setAttribute("foo", "bar"); %>  
.....  
.....assigns "bar" to the variable x?  
String x=(String) pageContext.getRequest().getAttribute("foo");

Attribute value stored in context memory(ServletContext objects) is by default thread safe.  
True.

\_\_\_\_\_ is collection of actions that encapsulate some functionality to be used from....  
Tag Library

A serializable object for transferring data over the network is an example of which.....  
Transfer Object

Param attribute of <jsp:setProperty> is used to perform which of the following tasks?  
Fetching a parameter from request objects and setting it as a bean property.

Which of the following statements are True?  
A JSP can contain only HTML.  
A JSP is executed at server and plain HTML is sent back to the client browser.

Which of the following statement about EL access operator is true?  
Anywhere the .(dot) operator is used , the [] could be used.

Which of the following is used to import a class in a jsp file?  
<%@page import="java.util.List"%>

In an HTTP request browser information is sent in \_\_\_\_\_.  
The Header.

Init params are accessible in Servlet constructor .T/F  
False

Which of the following statement is true?

A servlet is a java program with embedded HTML.

Which of the following HTTP method puts or replaces a document on server?

PUT

Which of the following statements are true?(3)

The purpose of EL is to make JSP script free.

EL is enabled in a JSP by default.

EL is simple and powerful replacement of StandardActions.

How Instantiation and Initialization of a servlet is done?

By container.

Which of the following statement are true?

ServletConfig is unique for each servlet

ServletConfig is common for all servlets.

- 1) <c:if has which command?
  - a)expr
  - b)test
  - c)check
  - d)cond
- 2) how to send cookie as part of response?
  - a)response.addcookie(new cookie("smethng","smethng"));
  - b)response.setcookie(new cookie("smethng","smethng"));
  - 3)response.set(new cookie("smethng","smethng"));
- 3) which is correct syntax to import a file?
  - a) <% import file="asdas.jsp" %>
  - b) <% import asdas.jsp %>
  - c) <% page import asdas.jsp %>
  - d) none
- 4) how to set a bean with employeeid which is int?(choose two)
  - a)<jsp:setproperty name="blah" property="employeeid"/>
  - b)<jsp:setbean name="blah" property="employeeid"/>
  - c)<%beanobject.setEmployeeId(int id);%>
  - d)<%beanobject.setEmployeeId(String id);%>
- 5) how to redirect the response to an errorpage.html?
  - a)response.setStatus(302)
  - b)response.sendError(302)
  - c)response.setErrorCode(302)
  - d)response.sendErrorRedirect(302)
- 6)a cookie is a
  - a) an encrypted file which contains client information to be sent to server
  - b) a servlet attribute
  - c) a special servlet
  - d) a text field maintained by server at the client
- 7) your servlet class extends?
  - a)servlet
  - b)generic servlet
  - c)http servlet
- 8)which listener is used to act before the page is loaded when the request is sent
  - a)httpServletRequestListener
  - b)httpSessionBinding
  - c)httpSessionListener
- 9) which is used for switching function?
  - a)<c: when
  - b)<c: if
  - c)<c: foreach
- 10) During translation of jsp the scriptlet code is
  - a)included in \_jspService method of servlet
  - b) scriptlet code has nothing to do with generated servlet
  - c) included in doGet() method of servlet
- 11) choose two which are true
  - a)a servlet can alone handle requests without jsp



- b) a jsp can alone handle requests without servlet
  - c) a servlet need jsp to handle client requests
  - d) a jsp need servlet to handle client requests
- 12) which of the following is true about precompiling jsp?
- a) we can avoid runtime errors in the application
  - b) service method neednot be executed during first request
  - c)
  - d)
- 13) how to access init params in web.xml?
- a) `contextparam.paramname("parameter-name")`
  - b) `servletconfig.param("parameter-name")`
  - c) `initparam.getname("parameter-name")`
- 14) which of the following are true?(choose two)
- a) `<%=8*3%>`
  - b) `<%=2*3%>`
  - c) `<%=3>5%>`
  - d) `<%=int a=3%>`
- 15) Feature not contained in container
- a. Servlet life manager
  - b. Session management
  - c. Application controller
  - d. Multithreading support
- 16) `Map map=new hashmap();`  
`map={'a','1'};`  
`map={'b','2'};`  
`map={'c','3'};`  
`map={'d','4'};`  
`String x[]={ 'a','b','c','d' }`  
 what does `map.get(x[0])` return?
- a) 1
  - b) 0
  - c) doesn't return anything
  - d) none
- 17) `list=new ArrayList();`  
`list.add('a');`  
`list.add('b');`  
`list.add('c');`  
`list.add('d');`  
`String s="0,1,2,3"`  
 what does `list.get(Integer.parseInt(s.charAt(1)))` return?
- a) a
  - b) abc
  - c) c
  - d) d
- 18) which of the following are true(choose two)
- a) servlet config is one per servlet
  - b) servlet config is one per application
  - c) servlet context is one per servlet

d) servlet context is one per application

19) syntax of c:url

20) listener tag contains which of the following?

- a) <listener-class>
- b) <listener-type>
- c) <listener-name>

21) choose two which are correct

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

22) what is the output for below code:

```
<c:fortoken items="a,b,c,d,e" delims="," begin="0" end="4" step="2" var="alphabet">
<c:out value=${alphabet}>
a. a,b,c
b. b,d
c. a,c,e
d. c,d,e
```

23) how can we handle servlet and thread safely

answer: by implementing SingleThreadModel(seems correct)

24) 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:

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

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

- a. <a href='mailto:\${footerEmail}'>Contact me</a>
- b. <a href='mailto:\${initParam@footerEmail}'>Contact me</a>
- c. <a href='mailto:\${initParam.footerEmail}'>Contact me</a>
- d. <a href='mailto:\${contextParam@footerEmail}'>Contact me</a>
- e. <a href='mailto:\${contextParam.footerEmail}'>Contact me</a>

25) how can we access context parameter in webxml using el snippet?

- a. \${init.name}
- b. \${initparam.name}

26) How you can set session timeout for 2 minutes??

Answer:

- a. <session-timeout>120</session-timeout>
- b. Session.setMaxInactiveSession(120);

27) Which listener attribute is used for listener tag??

Answer: <listener-class>

28) Which used for print el \${var}

- a. <c:value out=\${var}>
- b. <c:out value=\${var}>

29) which of the following is an alternative for throwing skippageexception?

- a. returning skip\_page from doEndTag()
- b. returning skip\_body from doEndTag()
- c. returning skip\_page from doStartTag()
- d. returning skip\_body from doStartTag()

30) which method is overridden?

- a. jspinit()
- b. \_jspservice()

31) getting header with the name user-agent

- a. request.getHeader("user-agent")
- b. request.getIntheadr("user-agent")
- c. request.getRequestheader("user-agent")

32). 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);

33) return type of getattribute

- a. attribute
- b. string
- c. object
- d. none of the above

34) which tag is similar in implementing switch functionality----

- a. <c:if>
  - b. <c:foreach>
  - c. <c:when>
  - d. none of the above
- answer: d...<c:choose> is the ansr

35) how do we handle the httprequest service() method in init()

36) tlds stored?

- a. meta-inf

- b. meta-inf/tlds
- c. web-inf
- d. web-inf/tlds

37) tags in tld for the below code..for Tag1 class the tld is tag1 and for Tag2 class tld is tag2 saying that body of the code is not empty

- a. `<pre:tag1><pre:tag2>aaa</pre:tag2></pre:tag1>`
- b. none of the above
- c. `<pre:tag1></pre:tag1><pre2:tag2/>`
- d. `<pre:tag1><pre:tag2/><pre1:tag1>`

38) True or false  $\{8/0\} = \text{infinity}$  —Ans:true

39) line 1: `<! a=4;>`

line 2: `<% b=4;%>`

line 3: Solution is `<%=a*b; %>`

answer: line 2 is invalid

40) jsp lifecycle

41) true statement about servlet and jsp

42) import as page directive in jsp?

- a. java class and package
- b. jsp
- c. any of the listed option
- d. html

43) syntax for import a class in jsp file

44) true statement about init()

- a. init() is overridden to initialise initparam
- b. init() is overridden to initialise init param and executes initial code

45) which http method is used by the server to show the client what information has been received?

- a) put
- b) get
- c) options
- d) trace

46) return type of `getAttribute()` of `HttpServletRequest` ?

- a) object
- b) string
- c) int

47) which has the default value as true?

- a) `isErrorpage`

- b) session
- c) isEligored
- d) none

48) some program on synchronized method on sessions

5) <pre:tag1>  
<%=name%>  
</pre:tag1>

ans:tag dependant

49) Which implicit object is used unique identifier user....

- a. Request
- b. Response
- c. Application
- d. session

50) que on url writing:

- a) manually appends sessionid to url
- b) encodes url for security purpose

51) which is not attribute of directives?

- a) isScriptingEnabled
- b) language
- c) session
- d) isErrorpage

52) question on syntax for importing packages using page directive

<%@ page import=" ----" %>

53) que on HttpSessionListener interface methods(sessioncreate(), sessiondestroyed())

54) activation listener

55) accessing parameters using context parameters

56) identify the valid statement (radio button)

- a) jsp alone can process the client request
- b) servlet when used with jsp increases the efficiency of jsp

57) get\_cookies() usage in HttpServletRequest interface

59) Syntax of <c:url>

```
<c:url value="{param.url}" var="url">
<c:param name="name" value="{param.name}"/> ///url rewriting is done
<c:param name="pwd" value="{param.pwd}"/>
<c:param name="email" value="{param.email}"/>
```

</c:url>

60) Which listener is used when session is created??

Answer: `HttpSessionListener`

61) `<jsp:setproperty>` syntax

62) Translation and compilation is done at..

- a. Execution(ans)
- b. Deployment
- c. Undeployment
- d. None of the above

63) Which is used when cookies not used in session management?

Answer: `url rewriting not cookies`

64) Which is used to extract the values of request parameter address?

Answer: `${param.address}`

65) Select two option to retrieve first value in request variable

Answer: `request.getParameter("...")`;

`Request.getParameterValues("..")[0]`;

66) How to access the variables fort in variable name using EL

Answer: `${name["fort"]}`

`${name.fort}`

68) Which header is header used to retrieve the info of "User-agent"?

Answer: `response.getHeader("User-Agent")`;

69) EL expressions used for?

70) What is default scope of JSP:useBean or JSP:getproperty?

page

71) Session timeout is in minutes and programmatically is in Seconds(true or false)

72) Request dispatchers object

request, include, forward

73) How to store java primitive types in session?

## Advance Java- Module Test

- How would you retrieve the value of a header named **"User-Agent"**?
  - `String header =request.getRequestHeader("User-Agent");`
  - `String header = request.getHeader("User-Agent");`**
  - `String header = request.getHeader("User-Agent");`
  - `String header = request.getAttribute("User-Agent")`
- The method **getWriter()** of **HttpServletResponse** returns an object of type \_\_\_\_\_.
  - `HttpServletResponse`
  - `ServletOutputStream`
  - `ServletInputStream`
  - `PrintWriter`**
- Which of the following methods are not implemented by the **RequestDispatcher** interface?
  - `dispatch()`**
  - `redirect()`**
  - `forward()`
  - `include()`
- What is the return type of **getAttribute()** method of **HttpServletRequest**?
  - `Object`**
  - `String`
  - `Attribute`
  - None of the above
- Which statements about session timeouts are true? (Choose all that apply.)
  - Session timeout declarations made in the DD (web.xml) can specify time in seconds.
  - Session timeout declarations made in the DD (web.xml) can specify time in minutes.**
  - Session timeout declarations made programmatically can specify time only in seconds.**
  - Session timeout declarations made programmatically can specify time either in minutes or seconds.
- 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)
  - `request.getParameter("textBoxName");`**
  - `request.getParameterValues("textBoxName")[0];`**
  - `request.getHeader("textBoxName");`
  - `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 ?

- Displays "Cognizant" always
- 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 in order to set the session timeout period as 2 minutes?
  - 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
  - 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?
  - a. `getServletContext().getInitParameter(paramName);`
  - b. `getServletConfig().getInitParameter(paramName);`
  - c. `getServletContext().getParameter(paramName);`
  - d. `getServletConfig().getParameter(paramName);`
- 11. Which of the following are true?
  - 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?
  - 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.)
  - 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.)

- 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.)

- a. getCookies()
- 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.)

- 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?

- 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?
- a. isELIgnored
  - b. session
  - c. language
  - d. isScriptingEnabled
22. Which of the following is used to import a class in a JSP file?
- 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?
- 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?
- 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)
- 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"?
- 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 set 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

```

1) import javax.servlet.http.*;
 public class SessionListener implements HttpSessionListener
 {
line1-- public void sessionCreated() {
 System.out.println(" Session Created: ");
 }
line 2-- public void sessionDestroyed() {
 System.out.println(" Session Destroyed:");
 }
 }

```

which one is wrong (check box):

- (1) line one :method does not contain correct argument
  - (2) line two: method does not contain correct argument
  - (3) import statement does not implement HttpSessionListener interface
  - (4) all method of HttpSessionListener should not implement in this code
- ANS:

according to me option 1 and 2 both wrong

because correct syntax is:

```

public class SessionListener implements HttpSessionListener
{
 public void sessionCreated(HttpSessionEvent event) {
 System.out.println(" Session Created: ");
 }
 public void sessionDestroyed(HttpSessionEvent event) {
 System.out.println(" Session Destroyed:");
 }
}

```

(Q-2)

```

<%@page contentType="text/html" %>
<html>
<body>
<%! int a=6;%> //line--4
<% int b=8;%> //line--5
result <%=a*b;%> //line--6
</body>
</html>

```

options:

- (1) line 4 is not correct syntax
- (2) line 5 is not correct syntax
- (3) code compile successfully and display 48
- (4) line 6 is not correct syntax

Answer----4

(Q--3)

purpose of JSP Expression:

options:

- (1) Declare variables;
- (2) write block of java code
- (3) print something on screen
- (4) import java class and other jsp file ,html page

Answer: 3

(Q--4)

which one is correct:

- (1) you can override init() method to set on init param
- (2) you can override init() method to clean up database connection
- (3) you can override init() method to fetch init param & execute initial code
- (4) you can override init() method but you should not do

Answer:---3

(Q--5) import attribute of page directive use :

- (1) to import other jsp page and other html file
- (2) to import java class & package
- (3) to import taglib and other custom tag
- (4) any one of the above

Answer:2(but not confirm;;;;)

--Pankaj please confirm it

(Q--6)

you are employee of ABC company & your client has disabled cookie what u will do:

- (1) you will use URL rewriting
- (2) you ignore and leave on container to decide it(container take care it)
- (3) you enable session tracking management for JSP pages if the client has disabled cookies
- (4)---

Answer :3

(Q--7) which of the following method is over- ridden

- (1) JSPInit()
- (2) JSPDestroy()
- (3) \_JSPService()
- (4) none of these

Answer: 1 & 2 but radio button was given so i am confuse , please confirm it

(Q--8) Which of the following correctly defines JSP technology ?

- (1) JSP page is a text-based document that describes how to process a request to create a response.
- (2) JSP page is a text-based document that describes how to process a to response create a request.
- (3) JSP page is a xml-based document that describes how to process a request to create a response.
- (4) JSP page is a xml-based document that describes how to process a to response create a request.

Answer:I am confused in option 1 & 2 plz check it

(Q--9)

Your web application requires the ability to load and remove web files

Which two HTTP methods are used to perform these actions? (Choose two.)

1. PUT
  2. POST
  3. DELETE
  4. REMOVE
  5. DESTROY
- answer---1 & 5

(q--10) question on jsp tag <jsp:setProperty > set bean with bean name is employeeName & bean value is 10

which is employeeId in int

Select Two:

- (1) <jsp:setproperty name="employeeName " property="\*/>
- (2) <jsp:setbean name="employeeName " property="employeeid" value =10/>
- (3) <%beanobject.setEmployeeId(int id);%>
- (4) <%beanobject.setEmployeeId(String id);%>

answer ---2 & 3

while other questions are from previous question bank

All the best my dear friends....

these questions are enough for exams



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 in order 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

d