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Positive Marks : 2

2. Shawn works at Ampleinfo corporation as a programmer. He wants to retrieve the information about the browser name and version, which has requested for a Web page. Identify which one of the following request methods Shawn can use to perform the required task.

- ☐ HEAD
- ☒ GET
- ☐ POST
- ☐ PUT

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3. Which one of the following methods of the Servlet interface is called by the Web container just before the servlet instance is taken out of service?

- ☐ String getServletInfo()
- ☐ ServletConfig getServletConfig()
- ☐ void service()
- ☒ void destroy()

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Positive Marks : 2

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4. You want to simplify the configuration process of a servlet and add extra explanation to various programming elements, such as classes and methods. Which one of the following options will you use to perform the required task?

- ☐ HttpServlet class
- ☐ GenericServlet class
- ☒ Annotations
- ☐ DD file

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Positive Marks : 1

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5. Which one of the following methods should be used to store the processed output as an attribute in the request object?

- ☐ `getAttribute()`
- ☐ `forward()`
- ☐ `setAttribute()`
- ☐ `include()`

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Positive Marks : 2

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6. You are developing on an e-commerce Web application. The application has a page where the user enters the quantity of a product in a textbox named `txtbox1`, and then clicks the Submit button, the request goes to the `PriceCalculator` servlet. You want to retrieve the value entered in `txtbox1` and store it in variable named `qty1` of the `PriceCalculator` servlet. Identify which one of the following code snippets you can use to perform the required task.

- ☐ `int qty1 = (request.getParameter("txtbox1"));`
- ☐ `int qty1 = parseInt(request.getParameter("txtbox1"));`
- ☐ `int qty1 = Integer.parseInt(getParameter("txtbox1"));`
- ☐ `int qty1 = Integer.parseInt(request.getParameter("txtbox1"));`

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7. Consider the following code snippet of a MessageServlet servlet of a Web application:

```
response.setContentType("text/html;charset=UTF-8");
PrintWriter out = response.getWriter();
try {
    /* TODO output your page here. You may use following sample code. */
    out.println("<body>");
    out.println("<H1>Welcome to the MessageServlet page </H1>");
    out.println("</body>");
} finally {
    out.close();
}
```

You have created another servlet named FrontServlet, which uses the RequestDispatcher object to include the content of MessageServlet, as shown in the following code snippet:

```
response.setContentType("text/html;charset=UTF-8");
PrintWriter out = response.getWriter();
try {
    out.println("Start Included Resource");
    RequestDispatcher dispatch = getServletContext().getRequestDispatcher("/MessageServlet");
    dispatch.include(request, response);
    out.println("End Included Resource");
} finally {
    out.close();
}
```

For the preceding example, which one of the following statements is true?

- ☐ The FrontServlet servlet will output the following:  
Start Included Resource  
End Included Resource
- ☐ The FrontServlet servlet will output the following:  
Start Included Resource  
Welcome to the MessageServlet page  
End Included Resource
- ☐ The FrontServlet servlet will output the following:  
Start Included Resource  
Welcome to the MessageServlet page
- ☐ The FrontServlet servlet will output the following:  
Start Included Resource

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8. You are working on a website for an online shopping store. The home page of the website has a section where users can optionally register their e-mail ID to receive shopping notifications and discount codes, as shown in the following code snippet.

```
out.println("<form action='submitServlet'>");
out.println("<table cellpadding='10' align='center' border='2' bordercolor='black'>");
out.println("<tr><td bordercolor='white'><input type='Radio' value='register' name='r2' CHECKED>Register my e-mail ID.");
out.println("<tr><td bordercolor='white'><input type='Radio' value='noRegister' name='r2'>No Thanks, I will proceed to shopping.");
out.println("<tr><td bordercolor='white'><input type='Submit' value='Submit'");
out.println("</table></form>");
```

Based on the input of a user, the home page should forward the request to an appropriate servlet. If the user opts to register an e-mail ID, the home page should forward the request to the RegistrationServlet, else to the ShoppingServlet. You need to create a ForwardServlet that performs the required forward action. Which one of the following code snippets will you use in the ForwardServlet?

- ☐

```
/*Forward action starts*/
String requestType1 = request.getParameter("r2");
if (requestType1.equals("register")) {
    RequestDispatcher dispatch = request.getRequestDispatcher("/RegistrationServlet");
    getServletContext().forward(request, response);
} else if (requestType1.equals("noRegister")) {
    RequestDispatcher dispatch = request.getRequestDispatcher("/ShoppingServlet");
    getServletContext().forward(request, response);
}
/*Forward action ends*/
```
- ☐

```
/*Forward action starts*/
String requestType1 = request.getParameter("r2");
if (requestType1.equals("register")) {
    RequestDispatcher dispatch = response.getRequestDispatcher("/RegistrationServlet");
    dispatch.forward(request, response);
} else if (requestType1.equals("noRegister")) {
    RequestDispatcher dispatch = response.getRequestDispatcher("/ShoppingServlet");
    dispatch.forward(request, response);
}
/*Forward action ends*/
```
- ☐

```
/*Forward action starts*/
String requestType1 = request.getParameter("r2");
if (requestType1.equals("register")) {
    RequestDispatcher dispatch = getServletContext().getRequestDispatcher("/RegistrationServlet");
    request.forward(request, response);
} else if (requestType1.equals("noRegister")) {
    RequestDispatcher dispatch = getServletContext().getRequestDispatcher("/ShoppingServlet");
    request.forward(request, response);
}
/*Forward action ends*/
```
- ☐

```
/*Forward action starts*/
String requestType1 = request.getParameter("r2");
if (requestType1.equals("register")) {
    RequestDispatcher dispatch = getServletContext().getRequestDispatcher("/RegistrationServlet");
    dispatch.forward(request, response);
} else if (requestType1.equals("noRegister")) {
    RequestDispatcher dispatch = getServletContext().getRequestDispatcher("/ShoppingServlet");
    dispatch.forward(request, response);
}
/*Forward action ends*/
```



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Positive Marks : 4

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9. Consider the following code snippet of a servlet that attempts to store two different values with the same name as attributes in the `HttpServletRequest` object:

```
Request.setAttribute("result", new Integer(100));  
request.setAttribute("result", new Integer(200));  
out.println(request.getAttribute("result"));
```

What will be the outcome on compiling and executing the preceding code snippet?

- ☐ The compiler will raise an error when it encounters the second statement that attempts to store a value to an existing attribute.
- ☐ The runtime will throw an exception when it encounters the second statement that attempts to store a value to an existing attribute.
- ☐ 100
- ☐ 200

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11. Robert, your team mate, has created a servlet to keep track of the date and time when the cookie was first sent to the browser. To perform the tracking, Robert has created a cookie in the servlet, as shown in the following code snippet:

```
Cookie myCookie = null;
Cookie[] cookieset = request.getCookies();
res.setContentType("text/html");
PrintWriter pw = res.getWriter();
if(!cookieset){
    pw.println("This is the first time you have visited our website.");
    myCookie = new Cookie("datetime", new java.util.Date().toString());
    int age = 60 * 60 * 24 * 30;
    myCookie.setMaxAge(age);
}
```

Robert has approached you stating that the preceding code snippet have error that prevents the servlet from successfully sending the cookie to the browser. What will you suggest?

- ☐ Retrieve the cookie as a Cookie object, as shown:  
`Cookie cookieset = request.getCookies();`
- ☒ Add the cookie to the response, as shown:  
`response.addCookie(myCookie);`
- ☐ Increase the time duration for which the cookie should exist, as shown:  
`int age = 60 * 60 * 24 * 60;`  
`myCookie.setMaxAge(age);`
- ☐ Create the Cookie object by passing the Date object directly to the constructor, as shown:  
`myCookie = new Cookie("datetime", new java.util.Date());`

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## Section : Developing Web Applications Using Servlets and JSP ( 14 of 30 )

14. \_\_\_\_\_ refer to the custom tags that contain nested custom tags, scripting elements, actions, HTML text, and JSP directives

- ☐ Tags with a body
- ☐ Tags with attributes
- ☐ JSTL tags
- ☐ Empty tags

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Positive Marks : 2

15. You have created a website that consists of a login page, which enables a user to specify the user name and password to log on to the website. Once a user enters a valid user name and password in the login page and clicks the submit button, the website creates a cookie named `uname`, which stores the user name entered in the login page. Now, you want that the website should populate the `username` field of the login page with the value stored in the cookie, if the same users logs on to the website again.

Identify which one of the following EL expressions you can use to perform the required task.

- ☐ `$(uname.value)`
- ☐ `$(cookie.uname.value)`
- ☐ `$(cookie.uname.value)`
- ☐ `$(cookie.uname.value)`

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## Section : Developing Web Applications Using Servlets and JSP ( 16 of 30 )

16. Consider the following code snippet of a JSP page that attempts to compare two string values and print out the result:

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<c:set var="password1" value="pass@123"/>
<c:set var="password2" value="pass@123"/>
<c:if test="{password1==password2}">
<c:out value="Passwords match."/>
</c:if>
<c:out value="Password do not match."/>
```

What will be the output of the preceding code snippet?

- ☐ The output will be:  
Passwords match.  
Passwords do not match.
- ☐ There will be no output.
- ☐ The output will be:  
Passwords match.  
The output will be:  
Passwords do not match.

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17. The Java Web applications developed using the MVC design pattern use \_\_\_\_\_ to create the model.

- ☐ Java beans or Java classes
- ☐ HTML
- ☐ JSP
- ☐ Servlets

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Positive Marks : 2

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18. You are creating an online music library website using the Struts framework. To avail the various services of the website, a user needs to with the website. To do this, you have decided to create a registration page. The registration page consists of the following three fields:

1. Username
2. Password
3. Confirmation password

You want that if the password and confirmation password values are not same, then an error message should appear on the registration page. Identify which one of the following options you can use to perform the required task.

- ☐ Set the validate attribute of the <action> tag to false in struts-config.xml file and implement the validate() method in the Action class.
- ☐ Set the validate attribute of the <action> tag to true in struts-config.xml file and implement the validate() method in the ActionForm class.
- ☐ Set the validate attribute of the <action-mapping> tag to true in struts-config.xml file and implement the validate() method in the ActionForm class.
- ☐ Set the validate attribute of the <action> tag to true in struts-config.xml file and implement the validate() method in the Action class.

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20. Carol is working on an online shopping cart developed using the Struts framework. The home page of the application is a Struts view that accepts and registers an e-mail ID from a user to provide deal alerts. The EmailRegisterForm class of the application is an ActionForm class that stores a submitted e-mail ID. The Struts Action class is EmailRegisterAction. The execute() method of the action class validates the e-mail ID and based on the result either displays the main shopping page or an error page. The partial code of the EmailRegisterAction class, is as shown.

```
@Override
public ActionForward execute(ActionMapping mapping, ActionForm form,
    HttpServletRequest request, HttpServletResponse response)
    throws Exception {
    EmailRegisterForm rf = (EmailRegisterForm) form;
    String email = rf.getEmail();
    /*Perform validation*/
    if (isValid()) {
        return mapping.findForward("Success");
    }
    else
        return mapping.findForward("Error");
    }
}
```

The action mapping present in the Struts configuration file, is as shown:

```
<action path="/register" type="com.myapp.struts.EmailRegisterAction"
    name="/EmailRegisterForm">
    <forward name="SUCCESS" path="/mainshoppingpage.jsp"/>
    <forward name="ERROR" path="/error.jsp"/>
</action>
```

</action-mappings>

Carol has approached you for a solution for resolving an error present in the code that is preventing the application from displaying either the main shopping page or the error page. Which one of the following actions will you suggest to Carol?

- ☐ In the Struts configuration file, update the <forward> tags, as shown:  

```
<forward name="Success" path="/mainshoppingpage.jsp"/>
<forward name="Error" path="/error.jsp"/>
```
- ☐ In the Struts configuration file, update the opening <action> tag, as shown:  

```
<action path="/register" type="com.myapp.struts.EmailRegisterForm"
    name="/EmailRegisterAction">
```
- ☐ In the Struts configuration file, update the <forward> tags, as shown:  

```
<forward name="/success" path="/mainshoppingpage.jsp"/>
<forward name="/error" path="/error.jsp"/>
```
- ☐ In the Struts configuration file, update the <actionmapping> tag, as shown:  

```
<actionmapping>
<action path="/register" type="com.myapp.struts.EmailRegisterAction"
    name="/EmailRegisterForm">
</action>
<forward name="SUCCESS" path="/mainshoppingpage.jsp"/>
<forward name="ERROR" path="/error.jsp"/>
</actionmapping>
```

## Section : Developing Web Applications Using Servlets and JSP ( 21 of 30 )

21. Which one of the following interfaces of the JDBC API provides the functionality to execute SQL statements?

- ☐ ResultSet
- ☐ Connection
- ☐ Driver
- ☐ Statement

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## Section : Developing Web Applications Using Servlets and JSP ( 24 of 30 )

24. You are developing a Struts Action class that performs user verification by validating input credentials with the ones stored in a database. A connector class, named DbConnector that provides connection to the database already exists. The DbConnector class provides a createConnection() method that returns a Connection object. You need to use the Connection object to query the database whether or not the specified user name exists. The partial code of the Action class is as shown.

```
@Override
public ActionForward execute(ActionMapping mapping, ActionForm form,
    HttpServletRequest request, HttpServletResponse response)
    throws Exception {
    LoginBean lBean = (LoginBean)form;
    String userName = lBean.getUserName();
    String pwd = lBean.getPassword();
    DbConnector connector= new DbConnector();
    Connection con = connector.createConnection();
    /*Insert code to query database*/
}
```

Which one of the following code snippet will you use in this scenario to query the database?

- ☐ Statement checkUserID = connector.createStatement();  
ResultSet rs = connector.executeQuery("Select UserName From Credentials WHERE UserName='"+userName+"'");  
if(rs.next())  
/\*User name exists. Perform validation\*/  
}
- ☐ Statement checkUserID = connector.createStatement();  
ResultSet rs = checkUserID.executeQuery("Select UserName From Credentials WHERE UserName='"+userName+"'");  
if(rs.next())  
/\*User name exists. Perform validation\*/  
}
- ☐ Statement checkUserID = con.createStatement();  
ResultSet rs = checkUserID.executeQuery("Select UserName From Credentials WHERE UserName='"+userName+"'");  
if(rs.next())  
/\*User name exists. Perform validation\*/  
}
- ☐ Statement checkUserID = con.createStatement();  
ResultSet rs = con.executeQuery("Select UserName From Credentials WHERE UserName='"+userName+"'");  
if(rs.next())  
/\*User name exists. Perform validation\*/  
}

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25. Which one of the following values of the readyState property signifies that the XMLHttpRequest object has successfully invoked the open() method?

- ☐ 0
- ☐ 2
- ☐ 3
- ☐ 1

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26. You have created a registration page which consists of a text box named User Name. On this page, the users are not supposed to enter special characters in the User Name text box. However, if a user enters a special character in this text box, an error message should be displayed immediately. For this, you have decided to apply AJAX behavior on the User Name text box. The AJAX behavior is defined in a JavaScript function named validate. Identify which one of the following code snippets you can use to create the User Name text box which the desired functionality.

- ☐ User Name: <input id="user name" type="text" value="validate();" >
- ☐ User Name: <input id="user name" type="text" action="validate()" >
- ☐ User Name: <text id="user name" type="text" onkeyup="validate()" >
- ☐ User Name: <input id="user name" type="text" onkeyup="validate()" >

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27. You have been assigned to create an asynchronous Servlet that creates a pool of 20 threads to asynchronously handle a time consuming task that is required to process the request. Which one of the following code snippets will you use to perform the required task?

- ☐

```
AsyncContext aCtx = request.startAsync();
ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor();
executor.execute(new AsyncHandler("aCtx"), 20);
```
- ☐

```
AsyncContext aCtx = request.startAsync(req, res);
ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor(aCtx);
executor.execute(new AsyncHandler(20));
```
- ☐

```
AsyncContext aCtx = request.startAsync(req, res);
ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor(20);
executor.execute(new AsyncHandler(aCtx));
```
- ☐

```
AsyncContext aCtx = request.startAsync(req, res);
ScheduledThreadPoolExecutor executor = new ScheduledThreadPoolExecutor(10);
executor.execute(new AsyncHandler());
```

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## Section : Developing Web Applications Using Servlets and JSP ( 28 of 30 )

28. Which one of the following authentication techniques encrypts the login credentials of a user and then sends the encrypted login credentials to the server?

- ☐ Form-based authentication
- ☐ HTTP Basic authentication
- ☐ Client Certificate authentication
- ☐ HTTP Digest authentication

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Positive Marks : 2

## Section : Developing Web Applications Using Servlets and JSP ( 29 of 30 )

29. You have configured a Web application to use Form-based authentication mechanism. You want that the user should be redirected to Error.jsp page on unsuccessful authentication. Identify which one of the following elements you can use in the web.xml file to perform the required task.

- ☐ <form-error-page>/Error.jsp</form-error-page>
- ☐ <form-login-config>/Error.jsp</form-login-config>
- ☐ <form-error-page>/Error.jsp</form-error-page>
- ☐ <form-login-page>/Error.jsp</form-login-page>

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Positive Marks : 3

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30. You and your team have been assigned to secure the existing corporate website of PharmaPup Inc., an organization that manufactures pet medicines. As per the requirement specification, only the administrator role should be allowed to access resources stored in the /secure subdirectory of the application directory structure. Your contact point at PharmaPup has provided the information that two users, named Alex and Mathew performs the administrator role. Which one of the following code snippets will you use in the deployment descriptor of the Web application to perform the required security role mapping?

- ☐ `<security-role-mapping>`  
`<role-name>Administrator</role-name>`  
`<principal-name>Alex</principal-name>`  
`<principal-name>Jim</principal-name>`  
`</security-role-mapping>`
- ☐ `<security-role-mapping>`  
`<role-name>Administrator</role-name>`  
`<principal-name>Alex , Jim</principal-name>`  
`</security-role-mapping>`
- ☐ `<security-role-mapping>`  
`<role-name>Administrator</role-name>`  
`<user-name>Alex , Jim</user-name>`  
`</security-role-mapping>`
- ☒ `<security-role-mapping>`  
`<role-name>Administrator</role-name>`  
`<user-name>Alex</user-name>`  
`<user-name>Jim</user-name>`  
`</security-role-mapping>`

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