1. Which of the following elements are required for a valid `<taglib>` element in `web.xml`? (Select two)

   a `uri`
   b `taglib-uri`
   c `tagliburi`
   d `tag-uri`
   e `location`
   f `taglib-location`
   g `tag-location`
   h `tagliblocation`

2. Which of the following `web.xml` snippets correctly defines the use of a tag library? (Select one)

   a
   ```
   <taglib>
       <uri>http://www.abc.com/sample.tld</uri>
       <location>/WEB-INF/sample.tld</location>
   </taglib>
   ```

b
```
<tag-lib>
    <taglib-uri>http://www.abc.com/sample.tld</taglib-uri>
    <taglib-location>/WEB-INF/sample.tld</taglib-location>
</tag-lib>
```

c
```
<taglib>
    <taglib-uri>http://www.abc.com/sample.tld</taglib-uri>
    <taglib-location>/WEB-INF/sample.tld</taglib-location>
</taglib>
```

d
```
<tag-lib>
    <taglib>http://www.abc.com/sample.tld</taglib-uri>
    <taglib>/WEB-INF/sample.tld</taglib-location>
</tag-lib>
```

3. Which of the following is a valid `taglib` directive? (Select one)

a `<% taglib uri="/stats" prefix="stats" %>`
b `<%@ taglib uri="/stats" prefix="stats" %>`
c `<%! taglib uri="/stats" prefix="stats" %>`
d `<%@ taglib name="/stats" prefix="stats" %>`
e `<%@ taglib name="/stats" value="stats" %>`

4. Which of the following is a valid `taglib` directive? (Select one)

a `<%@ taglib prefix="java" uri="sunlib"%>`
b `<%@ taglib prefix="jspx" uri="sunlib"%>`
c `<%@ taglib prefix="jsp" uri="sunlib"%>`
d `<%@ taglib prefix="servlet" uri="sunlib"%>`
e `<%@ taglib prefix="sunw" uri="sunlib"%>`
f `<%@ taglib prefix="suned" uri="sunlib"%>`

5. Consider the following `<taglib>` element, which appears in a deployment descriptor of a web application:

```
<taglib>
    <taglib-uri>/accounting</taglib-uri>
    <taglib-location>/WEB-INF/tlds/SmartAccount.tld</taglib-location>
</taglib>
```

Which of the following correctly specifies the use of the above tag library in a JSP page? (Select one)

a `<%@ taglib uri="/accounting" prefix="acc"%>`
b `<%@ taglib uri="/acc" prefix="/accounting"%>`
c `<%@ taglib name="/accounting" prefix="acc"%>`
d `<%@ taglib library="/accounting" prefix="acc"%>`
e `<%@ taglib name="/acc" prefix="/accounting"%>`

6. You are given a tag library that has a tag named `printReport`. This tag may accept an attribute, `department`, which cannot take a dynamic value. Which of the following are correct uses of this tag? (Select two)

a `<mylib:printReport/>`

b `<mylib:printReport department="finance"/>`

c `<mylib:printReport attribute="department" value="finance"/>`

d `<mylib:printReport attribute="department"`
`                      attribute-value="finance"/>`

e `<mylib:printReport>`
`      <jsp:attribute name="department" value="finance" />`
`  </mylib:printReport>`

7. You are given a tag library that has a tag named `getMenu`, which requires an attribute, `subject`. This attribute can take a dynamic value. Which of the following are correct uses of this tag? (Select two)

a `<mylib:getMenu />`

b `<mylib:getMenu subject="finance"/>`

c `<% String subject="HR";%>`
`      <mylib:getMenu subject="<%=subject%>"/>`

d `<mylib:getMenu> <jsp:param subject="finance"/> </mylib:getMenu>`

e `<mylib:getMenu>`
`       <jsp:param name="subject" value="finance"/>`
`  </mylib:getMenu>`

8. Which of the following is a correct way to nest one custom tag inside another? (Select one)

a `<greet:hello>`
`      <greet:world>`
`      </greet:hello>`
`  </greet:world>`

b `<greet:hello>`
`      <greet:world>`
`      </greet:world>`
`  </greet:hello>`

c `<greet:hello`
`      <greet:world/>`
`  />`

d `<greet:hello>`
`      </greet:hello>`
`      <greet:world>`
`  </greet:world>`

9. Which of the following elements can you use to import a tag library in a JSP document? (Select one)

   a `<jsp:root>`

   b `<jsp:taglib>`

   c `<jsp:directive.taglib>`

   d `<jsp:taglib.directive>`

   e We cannot use custom tag libraries in XML format.

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

    a `<c:set value=var>`

    b `<c:var out=${var}>`

    c `<c:out value=${var}>`

    d `<c:out var="var">`

    e `<c:expr value=var>`

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

    a `cond`

    b `value`

    c `check`

    d `expr`

    e `test`

12. Which of the following JSTL `forEach` tags is valid?

    a `<c:forEach varName="count" begin="1" end="10" step="1">`

    b `<c:forEach var="count" begin="1" end="10" step="1">`

    c `<c:forEach test="count" beg="1" end="10" step="1">`

    d `<c:forEach varName="count" val="1" end="10" inc="1">`

    e `<c:forEach var="count" start="1" end="10" step="1">`

13. Which tags can be found in a JSTL `choose`? (Select two)

    a `case`

    b `choose`

    c `check`

    d `when`

    e `otherwise`