44-563 Developing Web Applications and Services

Exam 2 Sample Questions – The actual exam will contain 33 questions.

Each question is worth 3 points.

1. jQuery is a programming language that replaces JavaScript with Java.
   1. True
   2. False
2. XML defines not only the structure, but the meaning of predefined tags.
   1. True
   2. False
3. Which of the following is a valid alternative to XML DTDs?
   1. XML namespaces
   2. Native XML
   3. XML Schemas
   4. XML NDTDs
4. Consider the following XML code.

<h:html xmlns:h="http://www.w3.org/1999/xhtml"

xmlns:svg="http://www.w3.org/2000/svg" version="1.1">

<h:head>

<h:title>Exam 2</h:title>

</h:head>

<h:body>

<h:h2>A mathematical expression</h:h2>

<h:h2>What am I</h:h2>

<svg:svg>

<svg:ellipse cx="100" cy="50" rx="75" ry="45"

style="fill:red; stroke:black; stroke-width:5" />

</svg:svg>

</h:body>

</h:html>

svg in the second line an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* 1. a namespace
  2. a definitive
  3. an XML neutral specification
  4. an XML schema

1. Consider the following XML code.

<h:html xmlns:h="http://www.w3.org/1999/xhtml"

xmlns:svg="http://www.w3.org/2000/svg" version="1.1">

<h:head>

<h:title>Exam 2</h:title>

</h:head>

<h:body>

<h:h2>A mathematical expression</h:h2>

<h:h2>What am I</h:h2>

<svg:svg>

<svg:ellipse cx="100" cy="50" rx="75" ry="45"

style="fill:red; stroke:black; stroke-width:5" />

</svg:svg>

</h:body>

</h:html>

This XML will display identically in any browser.

* 1. True
  2. False
  3. The code above is not used with any browser

1. The session ID, along with other data is saved by the \_\_\_\_\_\_\_\_\_\_\_\_\_.
   1. Server
   2. Client
   3. Both server and client
2. AJAX replaces which technology?
   1. JavaScript
   2. Servlets
   3. Both JavaScript and Servlets
   4. Neither JavaScript nor Servlets
3. Java can be used to parse which technology?
   1. JSON
   2. XML
   3. Both JSON and XML
   4. Neither JSON nor XML
4. What is the purpose of a ‘Cookie’?
   1. To store session information that can be used by a server
   2. As a transfer mechanism similar to XML
   3. To allow an application server to communicate with a database
   4. None of the above
5. AJAX allows for the client to update only a portion of an HTML document.
   1. True
   2. False
6. It is considered good practice to utilize object-oriented programming principles in servlet programming.
   1. True
   2. False
7. Consider the following:

<?xml version="1.0" encoding="UTF-8"?>  
 <!ELEMENT hi (hello+, bye\*, greetings)>  
 <!ELEMENT hello (#PCDATA)>  
 <!ELEMENT bye (#CDATA)>  
 <!ELEMENT greetings (#PCDATA)>  
What is the difference in #PCDATA and #CDATA?

* 1. None – it is a typo
  2. PCDATA is run through a parser
  3. PCDATA is used by traditional PC’s, while CDATA is for ‘compact’, or mobile devices
  4. PCDATA is numerical, while CDATA is string data

1. Consider the code snippet below.

<body>

<form action="myServlet" method="get">

Name <input type="text" name="user"><br><br>

Age <input type="number" name="password"><br><br>

<input type="submit" value="LoginAccepted">

</form>

</body>

Where was this code located?

* 1. On a client web page
  2. On a server as part of a servlet
  3. As an XML file
  4. As JSON data

1. Consider the code snippet below.

{

name: “Sue”,

age: 26,

status: “A”,

groups: [“news”, “sports”]

}

Where was this code located?

* 1. On a client web page
  2. On a server as part of a servlet
  3. As an XML file
  4. As JSON data

1. XML is an alternative to cascading style sheets.
   1. True
   2. False
2. XML can be parsed for \_\_\_\_\_\_\_\_\_\_\_\_.
   1. string data only
   2. numeric data only
   3. both string and numeric data, within the same file
   4. both string and numeric data, but within different files
3. The following URL is a valid URL for passing a request to a server.

http://localhost:8080/relPath/GetName?Name=Smithy

* 1. True
  2. False