

**CSE445/598 Distributed Software Development Quiz 3**

This is an open book and open notes test. Choose one answer only in each question, unless otherwise specified. There are 20 points available. The time allowed is 20 minutes.

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1. What XML processing model reads one node into memory at a time?  
(A) DOM (Document Object Model) (B) **SAX (Simple API for XML)**  
(C) XMLDocument (D) XPath
2. In the Java API for XML Processing (JAXP) packages, what class creates the interface for parsers?  
(A) ContentHandler (B) SAXIterator  
(C) **SAXParserFactory** (D) SAXReader
3. What XML processing model locates data in an XML file based on the given path expression?  
(A) DOM (Document Object Model) (B) SAX (Simple API for XML)  
(C) **Path.Combine** (D) **XPath**
4. Which of the following path expression selects all attributes in all the elements “Course” in the entire XML document?  
(A) **//Course/@\*** (B) /Courses/@\* (C) /Courses/\* (D) //Course/\*
5. A Document Type Definition (DTD) file  
(A) follows XML syntax. (B) defines the structure of an XML schema file.  
(C) **defines the syntax of an XML file.** (D) extends the XML schema with more data types.
6. What does the following line of code in a DTD file mean?  
<!ELEMENT instructor (name+, course?, officeHours\*, phone | email)>  
(A) The element “name” is optional. (B) The element “phone” is required.  
(C) The element “course” is required. (D) **The element “course” is optional.**
7. What is the purpose of using a default namespace in an XML file?  
(A) Merge all namespaces into a single one. (B) **Reduce the uses of a qualifier.**  
(C) Define a global namespace. (D) Remove the need of using a namespace.
8. Which of the following terms is NOT defined in the W3C namespace  
“http://www.w3.org/2001/XMLSchema”?  
(A) all (B) choice (C) complexType (D) **course** (E) schema
9. What would happen if the same namespace qualifier is declared in the root and in a child element?  
(A) **The inner declaration overrides the outer one.** (B) An incorrect namespace location error occurs.  
(C) A double definition error occurs. (D) The vocabularies are merged.

10. What namespace inherits and merges all names from other namespaces?  
(A) **targetNamespace** (B) rootNamespace (C) localNamespace (D) defaultNamespace
11. Used for weather data exchange, the Digital Weather Markup Language (DWML) defines  
(A) Protocol Buffers (B) DTD files (C) **XML schema files** (D) non-standard files
12. What is the problem with the client-side's transformation from XML to HTML? Select all that apply.  
☐ **Need to modify the XML file.** ☐ Need to install .Net Framework on client side.  
☐ Need to write an XSL style sheet. ☐ **Rely on browser to have an XSLT processor.**
13. What is the advantage of a sever-side's solution for displaying an XML file in a required format?  
(A) **Reduce server computing need** (B) **No special requirement on Web browser**  
(C) No need to write an XSL style sheet (D) No browser is required
14. What is XHTML (Extensible HTML)?  
(A) It is the next generation of XML. (B) It converts an HTML file into an XML file.  
(C) It is the HTML with an XSL file included. (D) It is a schema definition language.  
(E) **It is the HTML with a type definition file.**
15. What are key languages used in html 5? Select all that apply.  
☐ **CSS** ☐ C# ☐ **JavaScript** ☐ Silverlight
16. What mechanism is used in Google search engine for defining data and data structure?  
(A) XML Schema (B) DTD (C) B-Tree (D) **Protocol Buffers**
17. The idea behind the Google's BigTable and Google File System is similar to that of  
(A) an XML Tree (B) a B Tree (C) **a B+ Tree** (D) a Binary Search Tree
18. If you plan to develop an interactive and graphics-intensive application, e.g., a game, what Web computing model should be used to meet the requirement of such an application?  
(A) Client-side computing with JavaScript (B) Pure HTML Web with CGI  
(C) Server-Side Computing (D) **Out-of-Browser Computing**
19. The purpose of HTML controls in ASP .Net GUI design is to  
(A) provide more powerful functions than Web controls.  
(B) implement pure HTML-based computing model.  
(C) facilitate style sheet transformation.  
(D) **map HTML tags to server controls more conveniently.**
20. If an XML file is created in your application, where should the file be stored in the ASP .Net application domain?  
(A) in App\_Code folder (B) **in App\_Data folder**  
(C) in Bin folder (D) in App\_WebReference folder