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CIS260-XML

Chapter 5 Review Essay Questions

1. What are the benefits of XML SCHEMAS?

- XML Schemas are created using basic XML, whereas DTD's utilize a separate syntax.
- XML Schemas fully support the Namespace Recommendation.
- XML Schemas enable you to validate text element content based on built-in and user-defined data types.
- XML Schemas enable you to more easily create complex and reusable content models.
- XML Schemas enable the modeling of programming concepts such as object inheritance and type substitution.
- *XML Schemas Use XML syntax. When creating an XML Schema, the syntax is exactly the same as XML.

2. What is the advantage of using an external DTD file?

The main advantage of using an external DTD is that you can use vocabularies that others have already developed, by referring to external files they have created.

3. What does DOCTYPE specify in a XML file?

The DOCTYPE informs the parser that a DTD (Document Type Definition) is associated with the XML document. The DOCTYPE must appear at the start of the document, preceded only by the XML header. It is also not allowed anywhere on the document, but at the start of the document. The XML Recommendation indicates that declaration elements must begin with an exclamation mark.

4. What does cardinality define in a DTD file?

An element's cardinality defines how many times it will appear within a content model. DTD's allow four indicators for cardinality. These four indicators include:

[none] This is the default behavior for elements used in content models.

? Indicates that the element may appear either once or not at all.

+ Indicates that the element may appear one or more times.

* Indicates that the element may appear zero or more times.

5. When was The XML Schema 1.0 specifications published by the W3C ?

The XML Schema 1.0 specifications were first published by the W3C in 2001 and then revised to a Second Edition in 2004. The 2004 documents are currently the primary reference for XML Schema, although a 1.1 version is under development (at the time of this writing).

6. What is mixed content models in XML Schemas?

Mixed content models enable you to include both text and element content within a single content model. To create a mixed content model in XML Schemas, you need to include the mixed attribute with the value true in your definition.

Example given:

```
<complexType mixed="true">
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mixed= the attribute

true= the text