Name: Class:	Date:

# Test Bank for New Perspectives on XML Comprehensive 3rd Edition Carey Vodnik 128507582X 9781285075822

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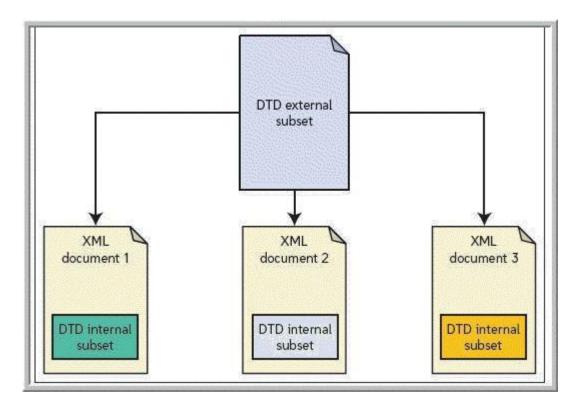
1. One way to create a valid document is to design a document type definition, or DTD, for the document. a. True

b. False

ANSWER: True REFERENCES:

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Tutorial 2: Validating Documents with DTDs



2. As shown in the accompanying figure, the external subset would define some basic rules for all of the documents, and the internal subset would define rules that are specific to each document. a. True

b. False

ANSWER: T

True REFERENCES:

**XML 73** 

3. Generally, elements contain parsed character data or child elements. a.

True

b. False

ANSWER:

True REFERENCES:

**XML 76** 

4. An XML element is not limited to either parsed character data or child elements. a.

True

b. False

ANSWER: T

True REFERENCES:

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Tutorial 2:	Validating Documents with	DTDs	
5. Attribute-li True	st declarations can be located any	where within the document type decl	aration. a.
b. False ANSWER: XML 86	True REFERENCES:		
True	alues do not allow you to control t	the format of the character data. a.	
b. False ANSWER: XML 89	False REFERENCES:		
7. To test for a. True b. False	validity, an XML parser must be	able to compare the XML document	with the rules established in the DTD.
ANSWER: XML 97	True REFERENCES:		
8. Entities car True b. False	n reference content found either in	an external file or within the DTD it	self. a.
ANSWER: XML 106	True REFERENCES:		
	to validate either binary data, such with parsed entities. a. True	ch as images or video clips, or charac	eter data that is not well formed, you
ANSWER: XML 117	False REFERENCES:		
10. In a valid	document, at least two elements	must be declared in the DTD. a. Tru	ue

b. False

_			
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ANSWER: False REFERENCES:

XML 75

11. A DTD can be used to enforce a specific data structure on document content.

ANSWER: True REFERENCES:

**XML 71** 

12. The DOCTYPE declaration has to be added to a document <u>epilog</u> as shown in the accompanying figure. *ANSWER:* False - prolog *REFERENCES:* XML 75

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Tutorial 2: Validating Documents with DTDs

13. An element declaration employing the #PCDATA content model shown in the accompanying figure does not allow for child elements.

ANSWER: True REFERENCES:

**XML 77** 

14. A modifying symbol is placed directly <u>before</u> the element it modifies.

ANSWER: False - after REFERENCES:

**XML 80** 

15. It is best not to work with mixed content if you want a tightly structured document.

ANSWER: True REFERENCES:

**XML 83** 

16. If a processor encounters more than one declaration for the same attribute, it ignores the <u>first</u> statement.

ANSWER: False - second REFERENCES:

**XML 86** 

17. An attribute declared using the <u>NAME</u> token must have a value equal to the value of an ID attribute located somewhere in the same document.

ANSWER: False - IDREF REFERENCES: XML 93

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Tutorial 2: Validating Documents w	vith DTDs	
18. The #FIXED attribute default is used ANSWER: False - #IMPLIED REFERENCES: XML 95	to indicate that the use of an attribute is of	ptional.
19. An entity whose content is found with ANSWER: False - internal REFERENT XML 104	nin the DTD is known as a(n) <u>external</u> enti- NCES:	ty.
20. A(n) <u>notation</u> must supply a name for <i>ANSWER:</i> True <i>REFERENCES:</i> XML 117	the data type and provide clues about how	v applications should handle the data.
21. A(n) is a collection of rules that data structure b. DTD  c. XMLNS d. validity glossa  ANSWER: b REFERENCES: XML  71	•	IL document. a.
22. One way to create a valid document is a. data structure b. DTD c. XMLNS d. validity glossa ANSWER: b REFERENCES: XML 71	nry	
23. A DTD is entered into the document a. basis b. element c. index d. type  ANSWER: d REFERENCES: XML	in a statement called a document	declaration.

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# Tutorial 2: Validating Documents with DTDs

24. The DOCTYPE declaration has to be added to the document \_\_\_\_\_, after the XML declaration and before the document's root element, as shown in the accompanying figure.

a. prolog

b. epilog

c. body d. any of the above

ANSWER: a REFERENCES: XML
71

- 25. How many DOCTYPE declarations can there be in an XML document?
  - a. 1 b. 2
  - c. 3 d. There is no limit.

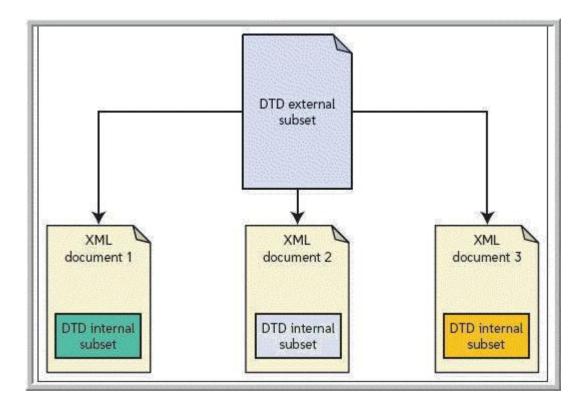
ANSWER: a REFERENCES: XML 71

- 26. You can divide a DTD into \_\_\_\_\_ parts.
  - a. twob. threec. fived. seven

ANSWER: a REFERENCES: XML

_			
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Tutorial 2: Validating Documents with DTDs



- 27. Which of the following is a part into which a DTD like the one in the accompanying figure can be divided?
- a. internal subset
- b. system identifier
- c. root element
- d. public identifier

ANSWER:

a REFERENCES: XML

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- 28. Which of the following is a part into which a DTD like the one in the accompanying figure can be divided?
- a. element declaration b. strict declaration
  - c. external subset
- d. root element

ANSWER:

c REFERENCES: XML

- 29. The locations of external subsets like that shown in the accompanying figure can be defined using \_\_\_\_\_ types of identifiers.
  - a. two
- b. three
- c. four
- d. six

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Tutorial 2: Validating Document	s with DTDs	
ANSWER: a REFERENCES: XN 71	ML	
30. Which of the following is a type of figure?  a. internal b. undeclared c. qualified d. system  ANSWER: d REFERENCES: XN	of identifier for the location of an external so	ubset like the one in the accompanying
31. To create a parsed entity that references: ENTITY entity SYSTEM? "  a. identifier b. qualifier  c. index d. locator  ANSWER: a REFERENCES: XN  107</td <td></td> <td>stem, you use the declaration</td>		stem, you use the declaration
32. Most standard XML vocabularies h a. public b. strict c. system d. master  ANSWER: a REFERENCES: XN 72		
33. An element declaration special content b. model c. type d. detail c. REFERENCES: XN 75	cifies an element's name and indicates what	kind of content the element can contain.
34. An element declaration can specify a. an element's name b. what kind of content the element can	•	

c. the order in which elements appear in the document

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Tutorial 2: Validating Documents with D	TDs	
d. All of the these are correct.  ANSWER: d REFERENCES: XML  75		
35. Element names can contain which of the followance are contain which of the followance contains the	-	
36. The content-model value can be one of a. five b. four c. three d. two  ANSWER: c REFERENCES: XML	specific keywords or one	of two content descriptions.
37. The content model is reserved for eler a. NULL b. NONE c. EMPTY d. VOID  ANSWER: c  REFERENCES: XML 76	ments that store no content.	
38. The value for the content model in an a. EMPTY b. NULL  c. NONE d. mixed  ANSWER: a  REFERENCES: XML 76	n element declaration means an el	ement cannot store any content.
39. The value for the content model in an data.  a. parsed b. mixed  c. #PCDATA d. elements	element declaration means the ele	ement can contain only parsed character

Name:		Class:	Date:
Tutorial 2: Validating Docum	ents with D	TDs	
ANSWER: c REFERENCES: 76	XML		
40. The value for the contendata and child elements.	t model in an	element declaration means the e	element can contain both parsed character
a. mixed	b. elements		
c. #PCDATA with sequence  ANSWER: c REFERENCES:  76			
41. The content model allow a. OPEN b. mixed c. #PCDATA d. ANY ANSWER: d REFERENCES: XML 76	s an element to	o store any type of content.	
42. The declaration would p a. ELEMENT products</td <td></td> <td>ent in an XML document: <na <!="" b.="" element="" products<="" td=""><td>-</td></na></td>		ent in an XML document: <na <!="" b.="" element="" products<="" td=""><td>-</td></na>	-
c. ELEMENT products  ANSWER: dREFERENCES:  77</td <td></td> <td>d.<!--</math--> ELEMENT name (#1</td> <td>PCDATA) &gt;</td>		d. </math ELEMENT name (#1	PCDATA) >
43. In a DTD, a symbol spec a. specifying b. quantifier c. count d. modifying		er of occurrences of each eleme	ent.
ANSWER: d REFERENCES: 80			
44. The symbol indicates that a. ^ b. ?	it an element o	ccurs at least once.	

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Tutorial 2: Validating Documents	with DTDs	
c. + d. & ANSWER: c REFERENCES: XML 80		
45. While very flexible, elements with a dynamic b. mixed c. static d. integrated hand break bre	content do not add much defined structure.  IL	cture to a document.
46. When the symbol is used with elements or PCDATA, or it can contain c.? d. ^ ANSWER: b REFERENCES: XM 83		mber of occurrences of child
47. Which of the following is accomplist a. It lists the names of all the attributes at b. It specifies the data type of each attribute is 1 d. All of these are correct.  ANSWER: dREFERENCES: XM 86	associated with a specific element. bute. required or optional.	
48. The attributes of the attribute value of a. ENTITY b. enumerated be c. ENTITIES d. ID  ANSWER: c  REFERENCES: XML 90	type contain a list of entities separated ist	by white space.
49. The attributes of the attribute value to a. ID b. NMTOKEN	type contain an accepted XML name.	

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c. IDRI ANSWER: REFERENCES.	b	NTITY	
50. The syntax	for creating a	conditional section is	
	eyword[ rations	<pre>b. <!-- [keyword[    declarations } }--></pre>	
	eyword[ cations	<pre>d. <!--[keyword[    declarations</pre--></pre>	

] ]>

d REFERENCES: XML

] ]>

ANSWER:

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Date:

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Tutorial 2: Va	lidating Documents wit	th DTDs	
a. property	b. element d. reference <i>ANSWER</i> : d	the data type ID is a candidate for an I	ID
a. name c. IDREF	value has been declared in a b. entity d. value c REFERENCES: XML	a document, other attribute values can r	refer to it using the token.
<ul><li>a. hyphens</li><li>c. white spa</li></ul>	KEN data types cannot conta b. colons ce d. Any of the above. c <i>REFERENCES:</i> XML		
a. #MANDATED c. #REQUII		the attribute must appear with every oc	ecurrence of the element.
DTD. a. validity c. persistence	b. integration	be able to compare your XML documen	nt with the rules you set up in the
56. If an entity's	content is found within the	DTD, the entity is known as a(n)	entity.

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Tutorial 2: Validating Documen	nts with DTDs	
a. internal b. persistent c. contained d. consistent ANSWER: a REFERENCES: X 106	KML	
57. An entity that references content a. internal b. well -formed c. unparsed d. dynamic  ANSWER: c REFERENCES: X 106	that cannot be interpreted by the XML parser is	a(n) entity.
58. Content referenced by an entity of a. persistent or consistent b. c. static or dynamic d. ANSWER: b REFERENCES: > 106	parsed or unparsed well-formed or unique	
59. XML parsers interpret thea. & b. %	symbol as a reference to another entity and atte	empt to resolve the reference.
c. # d. !  ANSWER: a REFERENCES: X 109	KML	
60. The symbol is used for ins a. & b. % c. # d. !	erting parameter entities.	
ANSWER: b REFERENCES: > 113	KML	
61. The chunks into which a DTD ca a. components b. blurbs	an be broken with parameter entities are known	as

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c. links d. modules

ANSWER: dREFERENCES: XML

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#### **Case-based Critical Thinking Questions Case**

#### 2-1

Casey is using XML to store information about the students in the science classes that he teaches. He wants to design a DTD that he can use to validate the XML documents that he uses for this purpose, and he comes to you for help.

- 62. You tell Casey that he must declare the DTD using a DOCTYPE statement. Where should the DOCTYPE go?
- a. before the XML declaration
- b. within the XML declaration
- c. after the XML declaration and before the document's root element
- d. after the document's root element

ANSWER: c REFERENCES: XML

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- 63. Casey wants to include a declaration for an element named "note" that can contain any type of content. Which of the following is an appropriate element declaration for this element?
  - a. < ! ELEMENT note (#PCDATA)> b. < ! ELEMENT note>
  - c. <! ELEMENT note ALL> d. <! ELEMENT note ANY>

ANSWER: d REFERENCES: XML

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- 64. Casey next wants to write a declaration for an element named "advanced" that he will use to record the fact that a student is advanced. This element will not contain any content. Which of the following is an appropriate element declaration for this element?
  - $a. < ! \, \text{ELEMENT}$  advanced NONE>  $b. < ! \, \text{ELEMENT}$  advanced EMPTY>

c. <! ELEMENT advanced > d. <! ELEMENT advanced NIL>

ANSWER: b REFERENCES: XML

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Tutorial 2: Validating Documents with D	OTDs .	
65. Casey needs to declare an "address" eleme address as parsed character data, which of the fo		
a. ELEMENT address (#PCDATA)</td <td>&gt; b.<!-- ELEMENT addres</td--><td>s CHAR&gt;</td></td>	> b. ELEMENT addres</td <td>s CHAR&gt;</td>	s CHAR>
c. </math ELEMENT address TEXT>	d. </math ELEMENT addres	s CDATA>
ANSWER: a REFERENCES: XML 77		
66. After you teach Casey about declarations for	r elements with child elements, h	e constructs the element declaration
<pre><!--ELEMENT class ((seminar   les following is NOT a valid "class" element?</pre--></pre>		
a. <class><seminar>Beginner Drawi</seminar></class>	ng <time>Mon.</time>	3-4
b. <class><lesson>One-on-One Pain</lesson></class>	ting <time>Tue</time>	s. 11noon
<pre>c. <class><seminar>Oil      Painting</seminar><lesson>b</lesson></class></pre>	rushstrokes </td <td>class&gt;</td>	class>
d <class><workshop>Working with</workshop></class>	Clav <td>&gt;</td>	>

#### **Case-based Critical Thinking Questions Case**

c REFERENCES: XML

2-2

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ANSWER:

Rosalind wants to add attribute declarations to her DTD, and she turns to you for information about the possible attribute types.

- 67. You tell Rosalind about the CDATA attribute type. Which of the following attribute values would NOT be allowed for an attribute of this type?
  - a. 25.99 b. New York, NY

c. Bob & Jenny d. yellow

ANSWER: c REFERENCES: XML

- 68. Rosalind wants to define a required attribute called "semester" of an element named "course." She wants to ensure that this attribute takes on one of three values: fall, spring, or summer. Which type of attribute should she use?
  - a. CDATA
- b. an enumerated type
  - c. a tokenized type
- d. a value-list type

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Tutorial 2: Va	lidating Documents v	with DTDs	
ANSWER:	b <i>REFERENCES:</i> XML	,	
following is an a	ppropriate declaration fo	<pre>ion of the "semester" attribute described in r this attribute? (fall   spring   summer) #REQ</pre>	
		(fall, spring, summer) #REQUI	
		(fall   spring   summer) #REQ	
		(fall, spring, summer) #REQUI	
ANSWER: 90	a <i>REFERENCES:</i> XML		
a. CDATA c. ID c REFERENCES:	b. UNIQUE d. IDREF <i>ANSWER:</i> XML 90		
attribute should of following is an a	contain character data, an appropriate declaration of	on of an attribute named "credits" of an ele and a value of 4 should be used if an attribute this attribute? CDATA default="4">	•
		CDATA default="4">	
	credits course C		
	course credits C d <i>REFERENCES:</i> XML		
72. External DTI a. dynamic c. embeddec	Ds work the same way as b. external d d. inline	style sheets.	

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ANSWER: b REFERENCES: XML

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73. A DOCTYPE declaration like the one in the accompanying figure is also known as a(n) \_\_\_\_\_.

ANSWER: DTD

document type declaration

DTD (document type declaration)

document type declaration (DTD) REFERENCES:

XML 71

74. In a(n) \_\_\_\_\_ subset, the declarations are placed in an external file that is accessed from the XML document.

ANSWER: external REFERENCES: XML 71

75. A(n) \_\_\_\_\_ is added to the DOCTYPE declaration to provide information about the DTD to the XML parser. *ANSWER:* public identifier

formal public identifier REFERENCES:

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Tutorial 2: V	Validating Documents with D7	ΓDs		
76. A(n)	_ specifies an element's name and	indicates what kind of content it	can contain. ANSWER:	element
XML 75	element type declaration REFER	PENCES:		
77. A(n) ANSWER: XML 67	_ content model is a list of child ele sequence <i>REFERENCES</i> :	ements that follow a defined orde	r.	
78 con <i>ANSWER:</i> XML 83	tent allows an element to contain be Mixed REFERENCES:	oth parsed character data and chi	ld elements.	
79. DTDs use ANSWER: REFERENCE	more general numbering with a(n) _ modifying S: XML 80	symbol, which specifies the	e number of occurrences of each	ı element.
80. Attributes ANSWER: REFERENCE	that are limited to a set of possible enumerated S: XML 91	values are known as types	3.	
81. A(n) ANSWER: REFERENCE	_ associates the value of an attribute notation S: XML 92	e with a NOTATION declarat	ion that is inserted elsewhere in	the DTD.
82 type ANSWER: REFERENCE	es are character strings that follow of Tokenized S: XML 92	certain rules for format and conte	ent.	

vame:	Class:	Date:
Гutorial 2: Validating Docu	ments with DTDs	
33. An attribute declared as a(n) the same document.	token must have a value equal to the val-	ue of an ID attribute located somewhere in
ANSWER: IDREF REFERE XML 93	ENCES:	
34 is ignored within a con ANSWER: White space REFERENCES: XML 115	mment, so you can spread comment text over se	everal lines without affecting DTD code.
35. An attribute that contains a lype.  ANSWER: NMTOKENS REFERENCES: XML 90	list of XML names, each separated by a blank s	space, can be defined using the data
36. Because a DTD is not writte needed to interpret DTD cod ANSWER: parsers REFERE		pport the syntax and language requirements
37. DTDs do not support,  ANSWER: namespaces  REFERENCES: XML 121	and thus are of limited value in compound doct	uments.
88. Used in conjunction with a ANSWER: A DTD can be u	in XML parser that supports data validation, a used to:	a DTD can be used to accomplish what?
	e that all required elements are present in a docu se a specific data structure on a document	ment
	at undefined elements from being used in a docu	iment

Specify the use of element attributes and define their permissible values

Describe how parsers should access non-XML or nontextual content

Define default values for attributes

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REFERENCES: XML 71

89. What are the five possible values for content-model in the element declaration?

ANSWER: The content-model value can be one of three specific keywords (ANY, EMPTY, #PCDATA), or one of two content descriptions (sequence, #PCDATA with sequence), as follows:

- ANY: The element can store any type of content or no content at all.
- EMPTY: The element cannot store any content.
- #PCDATA: The element can contain only parsed character data. Sequence: The element can contain only child elements.
- #PCDATA with sequence: The element can store both parsed character data and child elements

REFERENCES: XML 76

90. What are the limitations of mixed content elements? Under what circumstances should you not use them? *ANSWER*: Because they are very flexible, elements with mixed content do not add much defined structure to a document. You can specify only the names of the child elements, and you cannot constrain the order in which those child elements appear or control the number of occurrences for each element. An element might contain only text or it might contain any number of child elements in any order. For this reason, it is best to avoid working with mixed content if you want a tightly structured document. *REFERENCES*: XML 83

*Identify the letter of the choice that best matches the phrase or definition.* a. general entity

- b. unparsed entity
- c. external entity
- d. module
- e. & symbol
- f. internal entity
- g. parameter entity
- h. conditional section
- i. DTDs
- j. notation

REFERENCES: XML 106

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Tutor	ial 2: Validating Documents with DTDs		
	XML 120		
	XML 120 XML 106		
	XML 109		
	XML 118		
	XML 108		
	XML 106		
	XML 116		
91. interpr	References content that is either nontextual or reted by an XML parser ANSWER: b	r that cannot be	
92. ANSW	Used when you want to insert content into	o a DTD itself	
93. d	The smaller chunks into which a DTD can be be	roken <i>ANSWER:</i>	
94. inspec	Most standard vocabularies make these avaition ANSWER: i	lable online for	
95.	Draws its content from an external file ANSWER	<i>R</i> : c	
96. ANSW	Interpreted by XML parsers as a reference to ER: e	o another entity	
97. how aı	This supplies a name for a data type and proven application should handle the data ANSWER: j	rides clues about	

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Tutorial 2: Validating Documents v	with DTDs	
98. References content to be used ANSWER: a	d within an XML document	
99. Includes its content in the DTD A	ANSWER: f	

100. Enables you to divide a DTD into two parts: one interpreted by parsers, and one containing declarations that parsers ignore *ANSWER:* h