Unit Test-4

Topics : XML,XSLT,Java Parsers. Max Marks:30

1 Which of the following is/are true about XML document?

* + 1. XML document must contain at least one element
    2. XML document must have an element named root
    3. XML document must be saved as .xml
    4. XML document is proprietary

2 Technology that allows you to navigate to a particular node in XML is called

1. XQuery
2. XSTL
3. XPath
4. XPointer

3 Which of the following technologies(s) allows validating correct use of XML tags?

1. XQuery
2. DTD
3. XPath
4. XSchema

4 XML Schema is

* 1. Used to transform XML
  2. Better alternative to DTD
  3. Describe the in an RDBMS table design
  4. can read and process XML document

5 Which of the following are well-formed?

1. <image src=“reef.gif” />
2. <image src=“reef.gif”>This is a pic of great Australian reef </image>
3. <image src=“reef.gif”>

This is a pic of great Australian reef

<format> gif</format>

</image>

1. All the above are well formed

6 Which of the following is/are true?

* 1. DTD is case sensitive
  2. DTD is an XML document
  3. DTD declaration begins with DOCTYPE
  4. An XML is invalid if both external and internal DTD is provided.

7 Which of the following are valid attribute data types in DTD?

1. NMToken
2. ANY
3. IDREF
4. REQUIRED

8 Which of the declaration makes entry of attribute optional in XML?

1. <!ATTLIST mail content CDATA #IMPLIED>
2. <!ATTLIST mail content CDATA #OPTIONAL>
3. <!ATTLIST mail content (accept|reject) accept>
4. <!ATTLIST mail content FIXED “Empty”>

9 Which of the following are right attribute declaration?

1. <!ATTLIST mail size CDATA #FIXED “50”>
2. <!ATTLIST mail size #FIXED “50”/>
3. <!ATTLIST mail size CDATA #FIXED 50>
4. <!ATTLIST mail size #FIXED “50”>

10 Which of the following statements are true?

1. An XML document that is valid is well-formed.
2. An XML document that is well-formed is valid.
3. An XML document is either well-formed or valid.
4. All XML documents are well-formed and valid.

11 Which of the following ensures that item can occur any number of times?

* + 1. <xs:element name=“item“ minOccurs=“unbounded“>… </xs:element>
    2. <xs:element name=“item“ maxOccurs=“unbounded“>… </xs:element>
    3. <xs:element name=“item“ minOccurs=“\*“>… </xs:element>
    4. <xs:element name=“item“ maxOccurs=“\*“>… </xs:element>

12 Which of the following are NOT not used for restricting values?

* + 1. length
    2. maxLength
    3. minOccurs
    4. enumeration

13 XSD can be linked with XML by using which element?

* + 1. xsi:schemaName
    2. xsi:schema
    3. xsi:noNamespaceSchemaLocation
    4. xsi:schemaLocation

**14**

Refer the following xml file and answer the questions below.

**<?xml version="1.0" encoding="ISO-8859-1"?>**

**<catalog>**

**<cd year="1985" company="Columbia">**

**<title>Empire Burlesque</title>**

**<artist>Bob Dylan</artist>**

**</cd>**

**<cd year="1988" >**

**<title>Hide your heart</title>**

**<artist>Bonnie Tyler</artist>**

**</cd>**

**</catalog>**

A

The Xpath expression given below on the catalog.xml selects

Xpath expression: /

* + 1. catalog
    2. cd
    3. xml
    4. None of the above

B

Which XPath expression selects the 1st cd?

* + 1. //cd[attribute::year="1985"]
    2. //cd[@year="1985"]
    3. catalog/cd[@year="1985"]
    4. /catalog/cd[@year="1985"]

C

Which of the following Xpath expression will point to the 1st cd?

1. //cd[position()=1]
2. //cd[position()=0]
3. //position(“cd”)=1]
4. //position(“cd”)=0]

D

**<?xml version="1.0" encoding="UTF-8"?>**

**<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">**

**<xsl:template match="/catalog/cd">**

**<html><body>**

**<xsl:value-of select="title"/><br/>**

**</body></html>**

**</xsl:template>**

**</xsl:stylesheet>**

**The HTML that results on transformation using the above code on catalog.xml displays**

* + 1. Only Empire Burlesque
    2. Only Hide your heart
    3. Both Empire Burlesque and Hide your heart
    4. None of the above

E Which of the following is true?

1. XSLT does not support if-else type of condition
2. if-else condition can be implemented using <choose> and <when> xsl tags
3. XSLT does not support loops
4. Loops can be created using <xsl:while>

15

Which of these java parsers is Event Based.

A SAX B DOM

16

Which of these interfaces or classes contain the Events that have to be handled while parsing.

A ContentHandler

B DocumentBuilder

C DefaultHandler

D All the above

17

Discuss the advantages of XMLSchema over DTD. 5 marks

18

What are the Steps followed for parsing a xml document using DOM parser and a SAX parser. 5 marks