

Unit Test-4

Topics : XML,XSLT,Java Parsers.

Max Marks:30

- 1 Which of the following is/are true about XML document?
 - A. XML document must contain at least one element
 - B. XML document must have an element named root
 - C. XML document must be saved as .xml
 - D. XML document is proprietary
- 2 Technology that allows you to navigate to a particular node in XML is called
 - A. XQuery
 - B. XSTL
 - C. XPath
 - D. XPointer
- 3 Which of the following technologies(s) allows validating correct use of XML tags?
 - A. XQuery
 - B. DTD
 - C. XPath
 - D. XSchema
- 4 XML Schema is
 - A. Used to transform XML
 - B. Better alternative to DTD
 - C. Describe the in an RDBMS table design
 - D. can read and process XML document

- 5 Which of the following are well-formed?
- A. `<image src="reef.gif" />`
 - B. `<image src="reef.gif">This is a pic of great Australian reef </image>`
 - C. `<image src="reef.gif">`
This is a pic of great Australian reef
`<format> gif</format>`
`</image>`
 - D. All the above are well formed
- 6 Which of the following is/are true?
- A. DTD is case sensitive
 - B. DTD is an XML document
 - C. DTD declaration begins with DOCTYPE
 - D. An XML is invalid if both external and internal DTD is provided.
- 7 Which of the following are valid attribute data types in DTD?
- A. NMTOKEN
 - B. ANY
 - C. IDREF
 - D. REQUIRED
- 8 Which of the declaration makes entry of attribute optional in XML?
- A. `<!ATTLIST mail content CDATA #IMPLIED>`
 - B. `<!ATTLIST mail content CDATA #OPTIONAL>`
 - C. `<!ATTLIST mail content (accept|reject) accept>`
 - D. `<!ATTLIST mail content FIXED "Empty">`

- 9 Which of the following are right attribute declaration?
- A. `<!ATTLIST mail size CDATA #FIXED "50">`
 - B. `<!ATTLIST mail size #FIXED "50"/>`
 - C. `<!ATTLIST mail size CDATA #FIXED 50>`
 - D. `<!ATTLIST mail size #FIXED "50">`
- 10 Which of the following statements are true?
- A. An XML document that is valid is well-formed.
 - B. An XML document that is well-formed is valid.
 - C. An XML document is either well-formed or valid.
 - D. All XML documents are well-formed and valid.
- 11 Which of the following ensures that item can occur any number of times?
- A. `<xs:element name="item" minOccurs="unbounded">...</xs:element>`
 - B. `<xs:element name="item" maxOccurs="unbounded">...</xs:element>`
 - C. `<xs:element name="item" minOccurs="*">...</xs:element>`
 - D. `<xs:element name="item" maxOccurs="*">...</xs:element>`
- 12 Which of the following are NOT not used for restricting values?
- A. length
 - B. maxLength
 - C. minOccurs
 - D. enumeration

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

- A. xsi:schemaName
- B. xsi:schema
- C. xsi:noNamespaceSchemaLocation
- D. xsi:schemaLocation

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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: /

- A. catalog

- B. cd
- C. xml
- D. None of the above

B

Which XPath expression selects the 1st cd?

- A. //cd[attribute::year="1985"]
- B. //cd[@year="1985"]
- C. catalog/cd[@year="1985"]
- D. /catalog/cd[@year="1985"]

C

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

- A. //cd[position()=1]
- B. //cd[position()=0]
- C. //position("cd")=1]
- D. //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

- A. Only Empire Burlesque
 - B. Only Hide your heart
 - C. Both Empire Burlesque and Hide your heart
 - D. None of the above
- E Which of the following is true?
- A. XSLT does not support if-else type of condition
 - B. if-else condition can be implemented using <choose> and <when> xml tags
 - C. XSLT does not support loops
 - D. Loops can be created using <xsl:while>

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Which of these java parsers is Event Based.

- A SAX
B DOM

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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

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Discuss the advantages of XMLSchema over DTD.

5 marks

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

