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QUESTION 1

Which of the following is incorrect with respect to XML?

- A. An XML document features high data readability
- B. An XML document can be transmitted over general-use protocols such as HTTP and SMTP
- C. XML is designed with the ideal structure for storage in an RDB (relational database)
- D. Some RDBs (relational databases) can output results data in XML format

Correct Answer: C

QUESTION 2

Which of the following is clearly an unnecessary step in procedures to create digital signature via XML-Signature?

- A. Prepare a key for signing
- B. Normalize the subject of the signature (normalization via Canonical XML, etc.)
- C. Remove namespaces in the subject of the signature
- D. Calculate a digest of the subject of the signature

Correct Answer: C

QUESTION 3

When receiving an XML document following the DTD defined by NewsML (portions modified for this question), the document is processed via SAX programming.

```
[DTD]
<!ENTITY % localid " Duid ID      #IMPLIED
                  Euid CDATA    #IMPLIED">

<!ELEMENT NewsIdentifier (NewsItemId ,
RevisionId)>
<!ELEMENT NewsItemId    (#PCDATA)>
<!ELEMENT RevisionId    (#PCDATA)>
<!ATTLIST RevisionId    Update   CDATA  #REQUIRED >

<!ELEMENT Identification (NewsIdentifier)>
<!ATTLIST Identification %localid; >

<!ELEMENT NewsItem      (Identification)>

<!ELEMENT NewsML        (NewsItem+)>
```

Push the Exhibit Button to load the referenced "DTD". When processing the following "XML Document" according to the method shown by "SAX Processing," which of the following correctly describes the output results (print method output)?

Note that the attribute value is not output for this question.

```
[XML Document]
The root element name (document element name) is "NewsML".
The XML document follows the "DTD" definition.
The XML Document has no document type declaration.
The XML Document is comprised of elements, attributes and character data; comments and CDATA sections, etc. are not
included.
The XML Document is indented, and includes ignorable white spaces such as line feeds and tabs before the start-tags.

[SAX Processing]
Use the following "ContentHandlerImpl" class, and parse the XML Document using SAX.
Assume no execution errors.

class ContentHandlerImpl extends DefaultHandler {
    private String elementName = "";

    public void startElement(
        String namespaceURI, String localName, String qName, Attributes atts)
        throws SAXException {
        elementName = qName;
    }

    public void endElement(
        String namespaceURI, String localName, String qName)
        throws SAXException {
        elementName = "";
    }

    public void characters(char[] ch, int start, int length)
        throws SAXException {
        if ( elementName.equals("") == false ) {
            System.out.print(new String(ch, start, length));
        }
    }
}
```

- A. All character data of elements can be output, ignorable white spaces are not output
- B. All character data of elements can be output, and ignorable white spaces are also output
- C. A portion of character data of elements cannot be output
- D. No character data of elements can be output

Correct Answer: B

QUESTION 4

When processing the following "XML Document" according to the method shown by "DOM Processing," which of the following correctly describes the output results (print method output)?

```
[XML Document]
<doc><content>Today's<bold>"hot"</bold>news</content></doc>

[DOM Processing]
Process XML using the following method.
    printXML( doc );
The variable doc here references the Document instance of the loaded XML Document.
Assume no execution errors.

public static void printXML( Document doc ) {
    Element content = (Element)doc.getDocumentElement().getFirstChild();
    NodeList nl = content.getChildNodes();
    System.out.print( nl.getLength() );

    Element bold = (Element)content.getElementsByTagName( "bold" ).item(0);
    content.removeChild( bold );
    System.out.print( nl.getLength() );
}
```

B. 43

C. 42

D. 33

E. 32

F. 31

Correct Answer: E

QUESTION 5

Select which of the following correctly describes the results of performing a validation check on "XML Document". Assume that the XML parser correctly processes the XML Schema schemaLocation attribute.

```
[XML Document]
<TestML xmlns="urn:xmlmaster:testml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:xmlmaster:testml testml.xsd">
  <record level="1" data="100" />
  <record level="2" data="250" />
</TestML>
```

```
[testml.xsd]
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:xmlmaster:testml"
  xmlns:tns="urn:xmlmaster:testml">
  <xs:import namespace="urn:xmlmaster:testml"
    schemaLocation="record.xsd" />
  <xs:element name="TestML" type="tns:testmlType" />
  <xs:complexType name="testmlType">
    <xs:sequence>
      <xs:element ref="tns:record" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```
[record.xsd]
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="record" type="recordType" />
  <xs:complexType name="recordType">
    <xs:attribute name="level" type="xs:int" />
    <xs:attribute name="data" type="xs:int" />
  </xs:complexType>
</xs:schema>
```

A. Valid

B. The coding for the XML Schema Document is not appropriate; therefore, an error is thrown (initial error) when processing the "testml.xsd" import element

C. The coding for the XML Schema Document is not appropriate; therefore, an error is thrown (initial error) when processing the "testml.xsd" ""

D. No processing error, but is not valid.

Correct Answer: B

QUESTION 6

Use XSLT transformation to create XML according to the schema (portions modified for this question) defined by TravelXML.

Perform XSLT transformation on the "XML Document" using the following "XSLT Style Sheet". Select which of the following correctly describes the results of performing a validation check on the post-transformation XML against the schema ("XML Schema" referenced when the Exhibit Button is pushed).

```
[XML Document]
<form xmlns="urn:xmlmaster">
  <field1>Sky Star Hotel</field1>
  <field2></field2>
  <field3></field3>
</form>

[XSLT Style Sheet]
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:fm="urn:xmlmaster"
  exclude-result-prefixes="fm">
  <xsl:template match="/">
    <xsl:element name="BookingNotification"
      xmlns="http://www.xmlns.org/2003/TravelXML">
      <xsl:element name="AccommodationInformation">

        <xsl:element name="AccommodationName">
          <xsl:value-of select="fm:form/fm:field1" />
        </xsl:element>
        <xsl:if test="fm:form/fm:field2/text()">
          <xsl:element name="ChainName">
            <xsl:value-of select="fm:form/fm:field2" />
          </xsl:element>
        </xsl:if>
        <xsl:if test="fm:form/fm:field3/text()">
          <xsl:element name="AccommodationPhoneNumber">
            <xsl:value-of select="fm:form/fm:field3" />
          </xsl:element>
        </xsl:if>

      </xsl:element>
    </xsl:element>
  </xsl:template>
</xsl:stylesheet>
```

A. The root element (document element) of the post-transformation XML is an empty element, and the post-transformation XML is not valid against the schema

B. The post-transformation XML does not include the required elements defined by the schema (all elements defined once they have appeared, namespace reflected); therefore, is not valid

C. The post-transformation XML includes all of the required elements defined by the schema (all elements defined once they have appeared, namespace reflected); however, is not valid

D. The post-transformation XML is valid

Correct Answer: D

QUESTION 7

Select a valid XML Document against the "XML Schema" referenced when the Exhibit Button is pushed.

```
[XML Schema]
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:xmlmaster:testml"
  xmlns:tns="urn:xmlmaster:testml">
  <xs:element name="TestML">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="tns:scenario"
maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="scenario">
    <xs:complexType>
      <xs:group ref="tns:elements" />
      <xs:attributeGroup ref="tns:attributes" />
    </xs:complexType>
  </xs:element>

  <xs:group name="elements">
    <xs:sequence>
      <xs:element name="title" type="xs:string" />
      <xs:element name="content" type="xs:string"
/>
    </xs:sequence>
  </xs:group>

  <xs:attributeGroup name="attributes">
    <xs:attribute name="level" type="xs:int" />
    <xs:attribute name="data" type="xs:int" />
  </xs:attributeGroup>
</xs:schema>
```

- A

```
<TestML xmlns="urn:xrmlmaster:testml">
  <scenario level="1" data="100">
    <title>Prologue</title>
    <content>Long long ago...</content>
  </scenario>
</TestML>
```
- B

```
<TestML xmlns="urn:xrmlmaster:testml">
  <scenario level="1" data="100">
    <title xmlns="">Prologue</title>
    <content xmlns="">Long long ago...</content>
  </scenario>
</TestML>
```
- C

```
<TestML xmlns="urn:xrmlmaster:testml"
  xmlns:tns="urn:xrmlmaster:testml">
  <scenario tns:level="1" tns:data="100">
    <title>Prologue</title>
    <content>Long long ago...</content>
  </scenario>
</TestML>
```
- D

```
<TestML xmlns="urn:xrmlmaster:testml"
  xmlns:tns="urn:xrmlmaster:testml">
  <scenario tns:level="1" tns:data="100">
    <title xmlns="">Prologue</title>
    <content xmlns="">Long long ago...</content>
  </scenario>
</TestML>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 8

Which of the following does not correctly describe WSDL (WSDL 1.1)?

A. Under the WSDL definition, you can use the import element to import another WSDL definition

B. You do not need to specify a binding element when creating a WSDL definition

C. When a service operation is a "One-way" type, you can specify a fault element to designate the error message type as the child element of the operation element within the portType element

D. When a service operation is a "Request-response" type, you can specify a fault element to designate the error message type as the child element of an operation element within the portType element

Correct Answer: C

QUESTION 9

When processing the following "XML Document" according to the method shown by "SAX Processing," which of the following correctly describes the output results (print method output)?

```
[XML Document]
<doc><content>East<![CDATA[ & ]>West</content></doc>
```

```
[SAX Processing]
Use the following "ContentHandlerImpl" class, and parse the XML Document using SAX.
Assume no execution errors.
```

```
class ContentHandlerImpl extends DefaultHandler {
    public void characters(char[] ch, int start, int length) throws SAXException {
        System.out.print(new String(ch, start, length));
    }
}
```

- A. EastWest
- B. EastandWest
- C. EastWest
- D. East

Correct Answer: B

QUESTION 10

Which of the following is a correct statement about XML security?

- A. To encrypt an XML document using XML Encryption, the XML document must already have been normalized (normalization via Canonical XML, etc.)
- B. To attach a digital signature to an XML document using XML-Signature, the XML document must already have been normalized (normalized via Canonical XML, etc.)
- C. SSL cannot be used as security when sending an XML document
- D. To encrypt an XML document using XML Encryption, character encoding for the XML document must be UTF-16

Correct Answer: B

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