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**QUESTION: 38**

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

```
[XML Schema]
<xsd:schema
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.xmlns.org/2003/TravelXML"
  xmlns="http://www.xmlns.org/2003/TravelXML"
  elementFormDefault="qualified"
  attributeFormDefault="qualified">

  <xsd:element name="BookingNotification">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="AccommodationInformation"
minOccurs="1" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>

              <xsd:element name="AccommodationName"
minOccurs="1" maxOccurs="1">
                <xsd:simpleType>
                  <xsd:restriction base="xsd:string"/>
                </xsd:simpleType>
              </xsd:element>
              <xsd:element name="ChainName"
minOccurs="0" maxOccurs="1">
                <xsd:simpleType>
                  <xsd:restriction base="xsd:string"/>
                </xsd:simpleType>
              </xsd:element>
              <xsd:element
name="AccommodationPhoneNumber" minOccurs="0"
maxOccurs="1">
                <xsd:simpleType>
                  <xsd:restriction base="xsd:string"/>
                </xsd:simpleType>
              </xsd:element>

            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

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

**Answer: D**

### **QUESTION: 39**

Use DOM programming to create XML according to the schema defined by NewsML (portions modified for this question). Push the Exhibit Button to load the referenced "XML Document".

```
[XML Document]
<NewsML>
  <NewsItem>
    <ContentItem>
      <DataContent></DataContent>
    </ContentItem>
  </NewsItem>
</NewsML>
```

Load the "XML Document" and update the XML according to the method shown by "DOM Processing". Select which of the following correctly describes the results of performing a validation check on the created XML against the schema ("DTD" and "article.dtd"). Assume that "article.dtd" can be parsed normally during validation. The existence of a document type declaration during validation is not reflected.

```
[DOM Processing]
Create XML using the following method.
Document output = createXML( doc );
The variable doc here references the Document instance of the loaded XML Document.
Assume no execution errors.

public static Document createXML( Document doc ) {
    Element contentElement = (Element)doc.getElementsByTagName(
        "DataContent").item(0);

    Element articleElement = doc.createElement( "article" );
    contentElement.appendChild( articleElement );
    Text textNode = doc.createTextNode( "Start XML Master: Professional Exam" );
    articleElement.appendChild( textNode );

    return doc;
}

[DTD]
<!ENTITY % article SYSTEM "article.dtd">
%article;

<!ENTITY % data " (Encoding | DataContent )? ">
<!ELEMENT ContentItem ( %data; )>
<!ATTLIST ContentItem Href CDATA #IMPLIED >

<!ELEMENT Encoding %data;>
<!ATTLIST Encoding Notation CDATA #REQUIRED >

<!ELEMENT DataContent ANY>

<!ELEMENT NewsItem (ContentItem*)>
<!ELEMENT NewsML (NewsItem+)>

[article.dtd]
<!ELEMENT article (#PCDATA)>
<!ATTLIST article title CDATA #REQUIRED >
```

- A. The created XML does not include required attributes; therefore, is not valid against the schema
- B. The created XML has an illegal attribute value; therefore, is not valid against the schema
- C. The created XML does not follow element type declarations; therefore, is not valid against the schema
- D. The created XML is valid against the schema

**Answer: A**

**QUESTION: 40**

Select which of the following correctly describes the DOM (Level 2) tree after parsing the “XML Document.” Note that “&” is a character reference described as “&#x26”.

[XML Document] <data>&lt;contents&#x26;</data>

- A. The data element (Element) value (nodeValue) is “<contents&”
- B. The data element (Element) child node is a text node (Text) having a value (nodeValue) of “&lt;contents&#x26”
- C. There are three child nodes for the data element (Element)
- D. There is no method to know that “&” was a character reference once the DOM tree has been built.

**Answer: D**

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