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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/Trave
XML"
   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-transformationXML is not valid against the schema
B. The post-transformation XML does not include the required elements defined by the schema (all elements defined oncethey 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 oncethey 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>&1t;contents&</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 “&1t;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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