



I10-002^{Q&As}

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QUESTION 1

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

Correct Answer: A

QUESTION 2

Which of the following is incorrect with respect to general characteristics of DOM (Level 2) processing and data binding tool processing?

- A. Data types such as integers and dates cannot be handled by DOM; however, a data binding tool can be used to handle the data type
- B. A validation against the schema cannot be performed with the DOM; however, a data binding tool can be used to perform a validation against the schema
- C. A DOM parser cannot be used to execute a program created to use a different DOM parser; however, a data binding tool can be used to execute a program created to use a different data binding tool
- D. For a compiled programming language, compared to DOM processing, a data binding tool can detect more element name mistakes and other programming errors during compiling

Correct Answer: C

QUESTION 3

Push the Exhibit Button to load the referenced "XML Document". When processing the "XML Document" according to the method shown by "SAX Processing," which of the following correctly describes the output results (print and/or println method output)? Assume that the processed XML Document has no indents (ignorable white space such as line feeds, tabs, etc.).



[SAX Processing]

Use the following "ContentHandlerImpl" class, and parse the XML Document using SAX. The SAX parser is namespace aware. Assume no execution errors.

```
class ContentHandlerImpl extends DefaultHandler {
    boolean visiting, date, name;

    public void startElement(
        String uri, String localName, String qName, Attributes attr)
        throws SAXException {
        if ( uri.equals("urn:xmlmaster:VISIT") && localName.equals("Activity") )
            visiting = true;
        if ( visiting ) {
            date = localName.equals("DateTime");
            name = localName.equals("Name");
            if ( localName.equals("Job") )
                System.out.println( attr.getValue("Procedure") );
        }
    }
    public void endElement(String uri, String localName, String qName)
        throws SAXException {
        if ( uri.equals("urn:xmlmaster:VISIT") && localName.equals("Activity") )
            visiting = false;
        if (date) {
            System.out.print(" --- ");
            date = false;
        } else if (name) {
            System.out.print(" *** ");
            name = false;
        }
    }
    public void characters(char[] ch, int start, int length)
        throws SAXException {
        if ( date || name )
            System.out.print( new String(ch, start, length) );
    }
}
```

[XML Document]

```
<List xmlns="urn:xmlmaster:LIST">
  <Date>2004-07-01</Date>
  <Worker Name="Jeff Workman"
xmlns="urn:xmlmaster:WORKER" />
  <VisitList>
    <Activity xmlns="urn:xmlmaster:VISIT"
Code="0001">
      <DateTime>2004-07-01 09:00</DateTime>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>Helen Edwards</Name>
      </Location>
      <Job Procedure="Install freezer" Time="1" />
    </Activity>
    <Activity xmlns="urn:xmlmaster:VISIT"
Code="0002">
      <DateTime>2004-07-01 13:00</DateTime>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>John Smith</Name>
      </Location>
      <Job Procedure="Install air conditioner"
Time="2" />
    </Activity>
  </VisitList>
</List>
```

- A. Install freezer 2004-07-01 09:00 --- Helen Edwards *** Install air conditioner 2004-07-01 13:00 --- John Smith ***
- B. 2004-07-01 09:00 --- Helen Edwards *** Install freezer 2004-07-01 13:00 --- John Smith *** Install air conditioner



C. 2004-07-01 09:00 --- Helen Edwards *** 2004-07-01 13:00 --- John Smith ***

D. Nothing is output.

Correct Answer: B

QUESTION 4

Which of the following correctly describes the DOM (Level 2) Node interface?

A. The Node interface can be used to change the value (nodeValue) of the DOM element node (Element)

B. The Node interface can be used to change the name (nodeName) of the DOM element node (Element)

C. The Node interface can be used to change the value (nodeValue) of the DOM attribute node (Attr)

D. The Node interface can be used to change the name (nodeName) of the DOM attribute node (Attr)

Correct Answer: C

QUESTION 5

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



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