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QUESTION 1

Push the Exhibit Button to load the referenced "XML Document," and process XML using "DOM Processing". Select which of the following is the most appropriate expression of the results under XML 1.0. Line feeds and/or indents are not reflected in the results.

```
[DOM Processing]
Process XML using the following method.
    Document output = updateXML( doc );
The variable doc here references the Document instance of the loaded XML Document.
The DOM parser is namespace aware.
Assume no execution errors.

public static Document updateXML( Document doc ) {
    Node data1 = doc.getElementsByTagNameNS("urn:xmlmaster:EX", "data1").item(0);
    Node data2 = doc.getElementsByTagNameNS("urn:xmlmaster:EX", "data2").item(0);

    data2.appendChild( data1 );

    return doc;
}
```

A. string value string value

B. string value string value

C. string value

D. string value

Correct Answer: C

QUESTION 2

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 secions, 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 3

Push the Exhibit Button to load the referenced "XML Document".

```
[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>
         <Job Procedure="Install freezer" Time="2" />
         <Status>WAITING</Status>
      </Activity>
   </VisitList>
</List>
```

When processing the "XML Document" according to the method shown by "DOM Processing," which of the following is the most appropriate expression of the results under XML 1.0? Line feeds and/or indents are not reflected in the results. Although the expected processing result is choice "D", processing may not occur as expected.

```
[DOM Processing]
Process XML using the following method.
    Document output = createXML( doc, impl );
The variable doc here references the Document instance of the loaded XML Document.
The variable impl here references the DOMImplementation instance.
The DOM parser is namespace aware.
Assume no execution errors.

public static Document createXML( Document doc, DOMImplementation impl ) {
    String code = "0001";

    Document output = impl.createDocument(
                             "urn:xmlmaster:REPORT", "Report", null);
    Element root = output.getDocumentElement();
    Element src = (Element)doc.getElementsByTagNameNS(
                             "urn:xmlmaster:WORKER", "Worker").item(0);
    root.appendChild(output.importNode(src, true));

    NodeList nl = doc.getElementsByTagNameNS("urn:xmlmaster:VISIT", "Activity");
    for (int i = 0; i < nl.getLength(); i++) {
        src = (Element)nl.item(i);
        if (code.equals(src.getAttribute("Code"))) {
            Element elem = (Element)output.importNode(src, true);
            root.appendChild(elem);
            Element status = (Element)elem.getElementsByTagName(
                                          "Status").item(0);
            status.getFirstChild().setNodeValue("COMPLETED");
            break;
        }
    }

    return output;
}
```

A.

B.

C. C.C. COMPLETED

D. D. 2004-07-01 09:00 COMPLETED

Correct Answer: D

QUESTION 4

Which of the following describes the most correct call order of the ContentHandler interface methods when parsing the following "XML Document" using a validating SAX parser? This question reflects line feeds within the XML Document.

```
[XML Document]
<?xml version="1.0"?>
<!DOCTYPE a [
<!ELEMENT a (#PCDATA | b)*>
<!ELEMENT b (#PCDATA)>
]>
<a>
<b>c</b>
</a>
```

A. startDocument - startElement - ignorableWhitespace - startElement - characters - endElement ignorableWhitespace

-endElement - endDocument

B. startDocument - startElement - characters - startElement - characters - endElement - characters endElement
-endDocument

C. startDocument - startElement - startElement - characters - endElement - endElement - endDocument

D. startDocument - startElement - startElement - characters - endElement - ignorableWhitespace endElement
-endDocument

Correct Answer: B

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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