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QUESTION 1

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 2

Which of the following correctly describes the output results when performing an XSLT transformation on the following "XML Document" using the "XSLT Style Sheet" below? Note that the XSLT processor can output transformation results as a document.

```
[XML Document]
<data xml:lang="en">Tokyo</data>

[XSLT Style Sheet]
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <xsl:apply-templates select="data" />
  </xsl:template>

  <xsl:template match="data">
    <xsl:copy>
      <xsl:apply-templates select="." mode="processLang" />
      <xsl:value-of select="." />
    </xsl:copy>
  </xsl:template>

  <xsl:template match="*" mode="processLang">
    <xsl:choose>
      <xsl:when test="@xml:lang">
        <xsl:copy-of select="@xml:lang" />
      </xsl:when>
      <xsl:otherwise>
        <xsl:attribute name="xml:lang">ja-JP</xsl:attribute>
      </xsl:otherwise>
    </xsl:choose>
  </xsl:template>
</xsl:stylesheet>
```

- A.
- B. Tokyo
- C. Tokyo
- D. Tokyo

Correct Answer: C

QUESTION 3

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 4

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 5

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

```
[XML Document]
<Unfinished xmlns='urn:xmlmaster:UNFINISHED">
  <List>
    <Worker xmlns='urn:xmlmaster:WORKER"
Name="Jeff Workman"/>
    <Activity xmlns="urn:xmlmaster:VISIT"
Code="0002">
      <DateTime>2004-07-01 13:00</DateTime>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>John Smith</Name>
        <Address>Shinjuku Ward Tokyo</Address>
      </Location>
      <Job Procedure="Install Air Conditioner"
Time="2"/>
      <Status>COMPLETED</Status>
    </Activity>
    <Activity xmlns="urn:xmlmaster:VISIT"
Code="0003">
      <DateTime>2004-07-01 16:00</DateTime>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>Ken Miller</Name>
        <Address>Shibuya Ward Tokyo</Address>
      </Location>
      <Job Procedure="Clean air conditioner"
Time="2"/>
      <Status>WAITING</Status>
    </Activity>
  </List>
</Unfinished>
```

When processing the "XML Document" according to the method shown by "DOM Processing," which of the following correctly describes the output results (print and/or println method output)? Although the expected processing result is choice "A", processing may not occur as expected.

```
[DOM Processing]
Process XML using the following method.
    printXML( 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 void printXML( Document doc ) {
    Node node = doc.getElementsByTagNameNS(
        "urn:xmlmaster:CONTACT", "Name").item(0);
    String name = node.getFirstChild().getNodeValue();

    NodeList nl = doc.getElementsByTagNameNS("urn:xmlmaster:VISIT", "Activity");
    for (int i = 0; i < nl.getLength(); i++) {
        Element elem = (Element)nl.item(i);
        node = elem.getElementsByTagNameNS(
            "urn:xmlmaster:VISIT", "DateTime").item(0);
        System.out.print("Not Visited:");
        System.out.print(node.getFirstChild().getNodeValue());
        System.out.print(" Worker=" + name);
        node = elem.getElementsByTagNameNS(
            "urn:xmlmaster:CONTACT", "Name").item(0);
        System.out.print(", Visit (");
        System.out.print(node.getFirstChild().getNodeValue());
        System.out.println(")");
    }
}
```

A. Not Visited:2004-07-01 13:00 Worker=Jeff Workman, Visit(John Smith) Not Visited:2004-07-01 16:00 Worker=Jeff Workman, Visit(Ken Miller)

B. Not Visited:2004-07-01 13:00 Worker=John Smith, Visit(John Smith) Not Visited:2004-07-01 16:00 Worker=John Smith, Visit(Ken Miller)

C. Not Visited:2004-07-01 13:00 Worker=Jeff Workman, Visit(John Smith)

D. Not Visited:2004-07-01 13:00 Worker=John Smith, Visit(John Smith)

Correct Answer: B

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