



I10-002^{Q&As}

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**QUESTION 1**

Push the Exhibit Button to load the referenced "XML Document 1" and "XML Document 2," and process XML using "DOM Processing".

```
[XML Document1]
<ns:root1 xmlns:ns="urn:xmlmaster:EX1">
  <ns:data ns:info="value">string value</ns:data>
</ns:root1>

[XML Document2]
<ns:root2 xmlns:ns="urn:xmlmaster:EX2"/>
```

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(doc1, doc2);

The variable doc1 here references the Document instance of the loaded "XML Document 1".

The variable doc2 here references the Document instance of the loaded "XML Document 2".

The DOM parser is namespace aware.

Assume no execution errors.

```
public static Document updateXML( Document doc1, Document doc2 ) {
    String NS = "urn:xmlmaster:EX1";
    Element data = (Element)doc1.getElementsByTagNameNS(NS, "data").item(0);
    Attr info = data.getAttributeNodeNS(NS, "info");

    Attr imported = (Attr)doc2.importNode(info, true);
    doc2.getDocumentElement().setAttributeNodeNS( imported );

    return doc2;
}
```

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

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 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 attrs)
        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

Process the following "XML Document" according to the method shown by "DOM Processing," and output "article" (by



print method). Select which of the following correctly describes what should be in (1) for "DOM Processing"

```
[XML Document]
<content>article</content>
```

```
[DOM Processing]
```

```
Process XML using the following method.
```

```
    printXML( doc );
```

```
The variable doc here references the Document instance of the loaded XML document.
```

```
public static void printXML( Document doc ) {
    Element content = doc.getDocumentElement();
    System.out.print( -----(1)----- );
}
```

- A. content.getText()
- B. content.getNodeValue()
- C. content.getChildNode().getNodeValue()
- D. content.getFirstChild().getNodeValue()

Correct Answer: D

QUESTION 4

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

```
[XML Document]
<root>
  <data x="1" y="2">3</data>
  <data x="1" y="4">6</data>
  <data x="1" y="6">9</data>
  <data x="1" y="8">12</data>
</root>
```

Assume that the character "3" is obtained from the "XML document". Select which XSLT style sheet correctly performs the transformation. (Multiple answers possible. Select two.)

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

Correct Answer: BD

QUESTION 5



Which of the following is incorrect with respect to XML?

- A. An XML document features high data readability
- B. An XML document can be transmitted over general-use protocols such as HTTP and SMTP
- C. XML is designed with the ideal structure for storage in an RDB (relational database)
- D. Some RDBs (relational databases) can output results data in XML format

Correct Answer: C

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