



# I10-002<sup>Q&As</sup>

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**QUESTION 1**

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

**QUESTION 2**

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 3

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

```
[XML Document]
<Unfinished xmlns="urn:xmlmaster:UNFINISHED">
  <Item>
    <Worker xmlns="urn:xmlmaster:WORKER"
    Name="Jeff Workman"/>
    <Activity xmlns="urn:xmlmaster:VISIT"
    Code="0002">
      <DateTime>2004-07-01 13:00</DateTime>
      <Job Procedure="Install air conditioner"
    Time="2"/>
      <Status>WAITING</Status>
    </Activity>
  </Item>
  <Item>
    <Worker xmlns="urn:xmlmaster:WORKER" Name="Jim
    Worker"/>
    <Activity xmlns="urn:xmlmaster:VISIT"
    Code="0003">
      <DateTime>2004-07-01 16:00</DateTime>
      <Job Procedure="Clean air conditioner"
    Time="2"/>
      <Status>WAITING</Status>
    </Activity>
  </Item>
</Unfinished>
```

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. Assume that the processed XML Document has no indents (ignorable white space such as line feeds, tabs, etc.).



[DOM Processing]

Create 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 name = "Jim Worker";

    Document output = impl.createDocument(
        "urn:xmlmaster:LIST", "List", null);
    Element root = output.getDocumentElement();

    NodeList nl = doc.getElementsByTagNameNS("urn:xmlmaster:WORKER", "Worker");
    for (int i = 0; i < nl.getLength(); i++) {
        Element e1 = (Element)nl.item(i);
        if (e1.getAttribute("Name").equals(name)) {
            Element elem = output.createElementNS(
                "urn:xmlmaster:LIST", "VisitList");
            root.appendChild(output.importNode(e1, true));
            Element e2 = (Element)e1.getNextSibling();
            root.appendChild(output.importNode(e2, true));
        }
    }
    return output;
}
```

- A. 2004-07-01 16:00 WAITING
- B. 2004-07-01 16:00 WAITING
- C. C. 2004-07-01 16:00 WAITING
- D. D.D. 2004-07-01 16:00 WAITING

Correct Answer: C

#### QUESTION 4

Select which of the following correctly describes the message reception processing circumstances when a well-formed XML document has been sent/ received. [Transmission] Character encoding for the transmitted XML document is "UTF-16", and no XML declaration has been specified. The media type for transmission is set as "application/xml" without charset parameter. [Receipt] Implementation follows RFC3023 and XML 1.0. The receiving system first identifies the media type, and then processes the XML document. At the point that character encoding has been determined, an XML declaration (including encoding declaration) is appended automatically to the head of the received XML document.

- A. The media type identification appends , at which point the XML processor throws an error when processing the XML document
- B. The media type identification appends , at which point the XML processor throws an error when processing the XML document
- C. Character encoding is determined by the system locale. Since the XML declaration is appended accordingly, in certain cases the XML processor will throw an error when processing the XML document
- D. The character encoding is identified from the XML Document binary. An XML declaration () is appended accordingly



Correct Answer: D

---

### 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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