I10-002^{Q&As}

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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

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 "testml.xsd".

```
[testml.xsd]
<xs:schema
xmlns:xs="http://www.w3.org/2001/XMLSchema">
   <xs:element name="TestML" type="testmlType" />
   <xs:complexType name="testmlType">
     <xs:sequence>
       <xs:element ref="person"
maxOccurs="unbounded" />
     </xs:sequence>
   </xs:complexType>

   <xs:element name="person" type="personType" />
   <xs:complexType name="personType">
     <xs:sequence>
        <xs:element ref="name" />
        <xs:element ref="phone" />
     </xs:sequence>
   </xs:complexType>

   <xs:element name="name" type="xs:string" />
   <xs:element name="phone" type="xs:string" />
</xs:schema>
```

Assume that "testml.xsd" is defined. Without rewriting this XML Schema Document ("testml.xsd"), create a new, separate XML Schema Document to partially change the schema definition to write a cellPhone element as a child element of the person element. As a result, the following "XML Document" will be valid against the new schema. Which of the following correctly describes the new XML Schema Document? Assume the XML parser correctly processes the XML schema schemaLocation attribute.

```
[XML Document]
<TestML>
    <person>
        <name>John Smith</name>
        <phone>03-0000-9999</phone>
        <cellPhone>000-1111-2222</cellPhone>
    </person>
</TestML>
```

```
A      <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
           <xs:import schemaLocation="testml.xsd" />
           <xs:complexType name="personType">
               <xs:sequence>
                   <xs:element ref="name" />
                   <xs:element ref="phone" />
                   <xs:element ref="cellPhone" />
               </xs:sequence>
           </xs:complexType>
           <xs:element name="cellPhone" type="xs:string" />
       </xs:schema>
```

```
B      <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
           <xs:include schemaLocation="testml.xsd" />
           <xs:complexType name="newPersonType" substitutionGroup="personType">
               <xs:sequence>
                   <xs:element ref="name" />
                   <xs:element ref="phone" />
                   <xs:element ref="cellPhone" />
               </xs:sequence>
           </xs:complexType>
           <xs:element name="cellPhone" type="xs:string" />
       </xs:schema>
```

```
C      <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
           <xs:redefine schemaLocation="testml.xsd">
               <xs:complexType name="personType">
                   <xs:complexContent>
                       <xs:extension base="personType">
                           <xs:sequence>
                               <xs:element ref="cellPhone" />
                           </xs:sequence>
                       </xs:extension>
                   </xs:complexContent>
               </xs:complexType>
           </xs:redefine>
           <xs:element name="cellPhone" type="xs:string" />
       </xs:schema>
```

```
D      It is not possible to implement a function of the type proposed.
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 4

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 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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