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QUESTION 1

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 Procesing]
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 2

Select the following DOM (Level 2) methods that can add an attribute node (Attr) to an element node (Element).
(Multiple answers possible. Select two.)

A. appendChild

B. hasAttribute

C. setAttribute

D. setAttributeNode

Correct Answer: CD

QUESTION 3

Which of the following correctly describes the results of normalizing the following XML Document rec element by Exclusive XML Canonicalization?

```
[XML Document]
<a:root xmlns:a="urn:xmlmaster:a">
<b:rec xmlns:b="urn:xmlmaster:b">
  <b:field />
</b:rec>
</a:root>
```

A.

B.

C.

D.

Correct Answer: B

QUESTION 4

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 5

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

```
[XML Document]
<TestML>
   <record>
      <level>1</level>
      <data>100</data>
   </record>
   <record>
      <level>2</level>
      <data>250</data>
   </record>
</TestML>
```

Create an XML Schema Document for "XML Document". The definitions of this XML Schema Document require that the value of the level element must be singularly unique within the XML Document. Which of the following correctly describes the XML Schema Document?

A
```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="TestML" type="testmlType">
    <xs:unique name="levelUnique">
      <xs:selector xpath="record/level" />
      <xs:field xpath="record/level" />
    </xs:unique>
  </xs:element>

  <xs:complexType name="testmlType">
    <xs:sequence>
      <xs:element ref="record" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="record" type="recordType" />
  <xs:complexType name="recordType">
    <xs:sequence>
      <xs:element ref="level" />
      <xs:element ref="data" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="level" type="xs:int" />
  <xs:element name="data" type="xs:int" />
</xs:schema>
```

B
```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="TestML" type="testmlType">
    <xs:unique name="levelUnique">
      <xs:selector xpath="record" />
      <xs:field xpath="level" />
    </xs:unique>
  </xs:element>

  <xs:complexType name="testmlType">
    <xs:sequence>
      <xs:element ref="record" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="record" type="recordType" />
  <xs:complexType name="recordType">
    <xs:sequence>
      <xs:element ref="level" />
      <xs:element ref="data" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="level" type="xs:int" />
  <xs:element name="data" type="xs:int" />
</xs:schema>
```

C
```
<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="record" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="record" type="recordType">
    <xs:unique name="levelUnique">
      <xs:selector xpath="level" />
      <xs:field xpath="level" />
    </xs:unique>
  </xs:element>

  <xs:complexType name="recordType">
    <xs:sequence>
      <xs:element ref="level" />
      <xs:element ref="data" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="level" type="xs:int" />
  <xs:element name="data" type="xs:int" />
</xs:schema>
```

D
```
<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="record" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="record" type="recordType">
    <xs:unique name="levelUnique">
      <xs:selector xpath="level" />
      <xs:field xpath="." />
    </xs:unique>
  </xs:element>

  <xs:complexType name="recordType">
    <xs:sequence>
      <xs:element ref="level" />
      <xs:element ref="data" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="level" type="xs:int" />
  <xs:element name="data" type="xs:int" />
</xs:schema>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 6

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 7

Push the Exhibit Button to load the referenced "XML Document". When processing the "XML Document" according to the method shown by "SAX Processing," which of the following correctly describes the output results (print and/or println method output)? Assume that the processed XML Document has no indents (ignorable white space such as line feeds, tabs, etc.).

```
[SAX Processing]
Use the following "ContentHandlerImpl" class, and parse the XML Document using SAX.
The SAX parser is namespace aware.
Assume no execution errors.

class ContentHandlerImpl extends DefaultHandler {
  boolean visiting, date, name;

  public void startElement(
      String uri, String localName, String qName, Attributes attr)
      throws SAXException {
    if ( uri.equals("urn:xmlmaster:VISIT") && localName.equals("Activity") )
      visiting = true;
    if ( visiting ) {
      date = localName.equals("DateTime");
      name = localName.equals("Name");
      if ( localName.equals("Job") )
        System.out.println( attr.getValue("Procedure") );
    }
  }
  public void endElement(String uri, String localName, String qName)
      throws SAXException {
    if ( uri.equals("urn:xmlmaster:VISIT")  &&  localName.equals("Activity") )
      visiting = false;
    if (date) {
      System.out.print(" --- ");
      date = false;
    } else if (name) {
      System.out.print(" *** ");
      name = false;
    }
  }
  public void characters(char[] ch, int start, int length)
      throws SAXException {
    if ( date || name )
      System.out.print( new String(ch, start, length) );
  }
}
```

```
[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>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>Helen Edwards</Name>
      </Location>
      <Job Procedure="Install freezer" Time="1" />
    </Activity>
    <Activity xmlns="urn:xmlmaster:VISIT"
Code="0002">
      <DateTime>2004-07-01 13:00</DateTime>
      <Location xmlns="urn:xmlmaster:CONTACT">
        <Name>John Smith</Name>
      </Location>
      <Job Procedure="Install air conditioner"
Time="2" />
    </Activity>
  </VisitList>
</List>
```

A. Install freezer 2004-07-01 09:00 --- Helen Edwards *** Install air conditioner 2004-07-01 13:00 --- John Smith ***

B. 2004-07-01 09:00 --- Helen Edwards *** Install freezer 2004-07-01 13:00 --- John Smith *** Install air conditioner

C. 2004-07-01 09:00 --- Helen Edwards *** 2004-07-01 13:00 --- John Smith ***

D. Nothing is output.

Correct Answer: B

QUESTION 8

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 9

Use DOM programming to create XML according to the schema defined by NewsML (portions modified for this question). Push the Exhibit Button to load the referenced "XML Document".

```
[XML Document]
<NewsML>
  <NewsItem>
    <ContentItem>
      <DataContent></DataContent>
    </ContentItem>
  </NewsItem>
</NewsML>
```

Load the "XML Document" and update the XML according to the method shown by "DOM Processing". Select which of the following correctly describes the results of performing a validation check on the created XML against the schema ("DTD" and "article.dtd"). Assume that "article.dtd" can be parsed normally during validation. The existence of a document type declaration during validation is not reflected.

```
[DOM Processing]
Create XML using the following method.
    Document output = createXML( doc );
The variable doc here references the Document instance of the loaded XML Document.
Assume no execution errors.

public static Document createXML( Document doc ) {
    Element contentElement = (Element)doc.getElementsByTagName(
                                              "DataContent").item(0);

    Element articleElement = doc.createElement( "article" );
    contentElement.appendChild( articleElement );
    Text textNode = doc.createTextNode( "Start XML Master: Professional Exam" );
    articleElement.appendChild( textNode );

    return doc;
}

[DTD]
<!ENTITY % article SYSTEM "article.dtd">
%article;

<!ENTITY % data " (Encoding | DataContent )?">
<!ELEMENT ContentItem  ( %data; )>
<!ATTLIST ContentItem  Href  CDATA  #IMPLIED >

<!ELEMENT Encoding %data;>
<!ATTLIST Encoding  Notation  CDATA  #REQUIRED >

<!ELEMENT DataContent ANY>

<!ELEMENT NewsItem  (ContentItem*)>
<!ELEMENT NewsML  (NewsItem+)>

[article.dtd]
<!ELEMENT article (#PCDATA)>
<!ATTLIST article  title  CDATA  #REQUIRED >
```

A. The created XML does not include required attributes; therefore, is not valid against the schema

B. The created XML has an illegal attribute value; therefore, is not valid against the schema

C. The created XML does not follow element type declarations; therefore, is not valid against the schema

D. The created XML is valid against the schema

Correct Answer: A

QUESTION 10

Select which of the following correctly describes the results of performing a validation check on "XML Document".
Assume that the XML parser correctly processes the XML Schema schemaLocation attribute.

```
[XML Document]
<TestML xmlns="urn:xmlmaster:testml"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="urn:xmlmaster:testml testml.xsd">
   <record level="1" data="100" />
   <record level="2" data="250" />
</TestML>

[testml.xsd]
<xs:schema
        xmlns:xs="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:xmlmaster:testml"
        xmlns:tns="urn:xmlmaster:testml">
   <xs:import namespace="urn:xmlmaster:testml"
              schemaLocation="record.xsd" />
   <xs:element name="TestML" type="tns:testmlType" />
   <xs:complexType name="testmlType">
     <xs:sequence>
       <xs:element ref="tns:record" maxOccurs="unbounded" />
     </xs:sequence>
   </xs:complexType>
</xs:schema>

[record.xsd]
<xs:schema
        xmlns:xs="http://www.w3.org/2001/XMLSchema">
   <xs:element name="record" type="recordType" />
   <xs:complexType name="recordType">
     <xs:attribute name="level" type="xs:int" />
     <xs:attribute name="data" type="xs:int" />
   </xs:complexType>
</xs:schema>
```

A. Valid

B. The coding for the XML Schema Document is not appropriate; therefore, an error is thrown (initial error) whenprocesing the "testml.xsd" import element

C. The coding for the XML Schema Document is not appropriate; therefore, an error is thrown (initial error) whenprocesing the "testml.xsd" ""

D. No processing error, but is not valid.

Correct Answer: B

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