

I10-002^{Q&As}

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QUESTION 1

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 2

Which of the following describes the most correct call order of the ContentHandler interface methods when parsing the following "XML Document" using a validating SAX parser? This question reflects line feeds within the XML Document.

```
[XML Document]
<?xml version="1.0"?>
<!DOCTYPE a [
<!ELEMENT a (#PCDATA | b) *>
<!ELEMENT b (#PCDATA)>
]>
<a>
<b>c</b>
</a>
```

- A. startDocument - startElement - ignorableWhitespace - startElement - characters - endElement ignorableWhitespace -endElement - endDocument
- B. startDocument - startElement - characters - startElement - characters - endElement - characters endElement -endDocument
- C. startDocument - startElement - startElement - characters - endElement - endElement - endDocument
- D. startDocument - startElement - startElement - characters - endElement - ignorableWhitespace endElement -endDocument

Correct Answer: B

QUESTION 3

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 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 "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 6

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 7

Which of the following correctly describes a WSDL (WSDL 1.1) definition defining a certain service specification?

```
<definitions name="Example"
  targetNamespace="http://xmlmaster.org/example/wsdl"
  xmlns:tns="http://xmlmaster.org/example/wsdl"
  xmlns:xsd="http://xmlmaster.org/example/xsd"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns="http://schemas.xmlsoap.org/wsdl/">
  <types>
    <schema targetNamespace="http://xmlmaster.org/example/xsd"
      xmlns="http://www.w3.org/2001/XMLSchema">
      <element name="Document">
        <complexType>
          <sequence>
            <element name="Title" type="string"/>
            <element name="Content" type="string"/>
          </sequence>
        </complexType>
      </element>
    </schema>
  </types>

  <message name="ProcessDocumentMessage">
    <part name="body" element="xsd:Document"/>
  </message>

  <portType name="ExamplePortType">
    <operation name="ProcessDocument">
      <input message="tns:ProcessDocumentMessage"/>
    </operation>
  </portType>

  <binding name="ExampleSoapBinding" type="tns:ExamplePortType">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <operation name="ProcessDocument">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
    </operation>
  </binding>
</definitions>
```

- A. The service operation is a "Request-response" type
- B. The service operation is RPC oriented, and either a parameter or return value is included in the SOAP message

C. HTTP protocol is used to send the SOAP message to the service side
C.HTTP protocol is used to send the SOAP message to the service side

D. The service side URL (endpoint URL) is specified to send the SOAP message
D.The service side URL (endpoint URL) is specified to send the SOAP message

Correct Answer: C

QUESTION 8

Which of the following text strings is not output to the results document 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]
<doc NS1:title="Title" xmlns="http://www.xmlmaster.org/exam"
      xmlns:NS1="http://www.xmlmaster.org/exam">
  <body NS1:section="value" xmlns="">
    <NS1:content>Content</NS1:content>
  </body>
</doc>

[XSLT Style Sheet]
<stylesheet version="1.0" xmlns="http://www.w3.org/1999/XSL/Transform"
      xmlns:NS1="http://www.xmlmaster.org/exam">
  <output method="text" />
  <template match="/">
    <apply-templates select="descendant::*/@attribute::NS1:* | descendant::NS1:*/>
  </template>
  <template match="*" | attribute::*><value-of select="name()" />,</template>
</stylesheet>
```

- A. doc
- B. NS1:title
- C. body
- D. NS1:section
- E. NS1:content

Correct Answer: C

QUESTION 9

Assume that the "XML Document" is changed to the "Results XML Document." Select which XSLT style sheet correctly performs the transformation. Note that the XSLT processor can output transformation results as a document. [Results XML Document] Innop

- A.

[exam.xml]

B. [exam.xml]

C. [exam.xml]

D. D. [exam.xml]

Correct Answer: A

QUESTION 10

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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