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**QUESTION 1**

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 2

Which of the following does not correctly describe WSDL (WSDL 1.1)?

- A. Under the WSDL definition, you can use the import element to import another WSDL definition
- B. You do not need to specify a binding element when creating a WSDL definition
- C. When a service operation is a "One-way" type, you can specify a fault element to designate the error message type as the child element of the operation element within the portType element
- D. When a service operation is a "Request-response" type, you can specify a fault element to designate the error message type as the child element of an operation element within the portType element

Correct Answer: C

QUESTION 3

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

QUESTION 4

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 5

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

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