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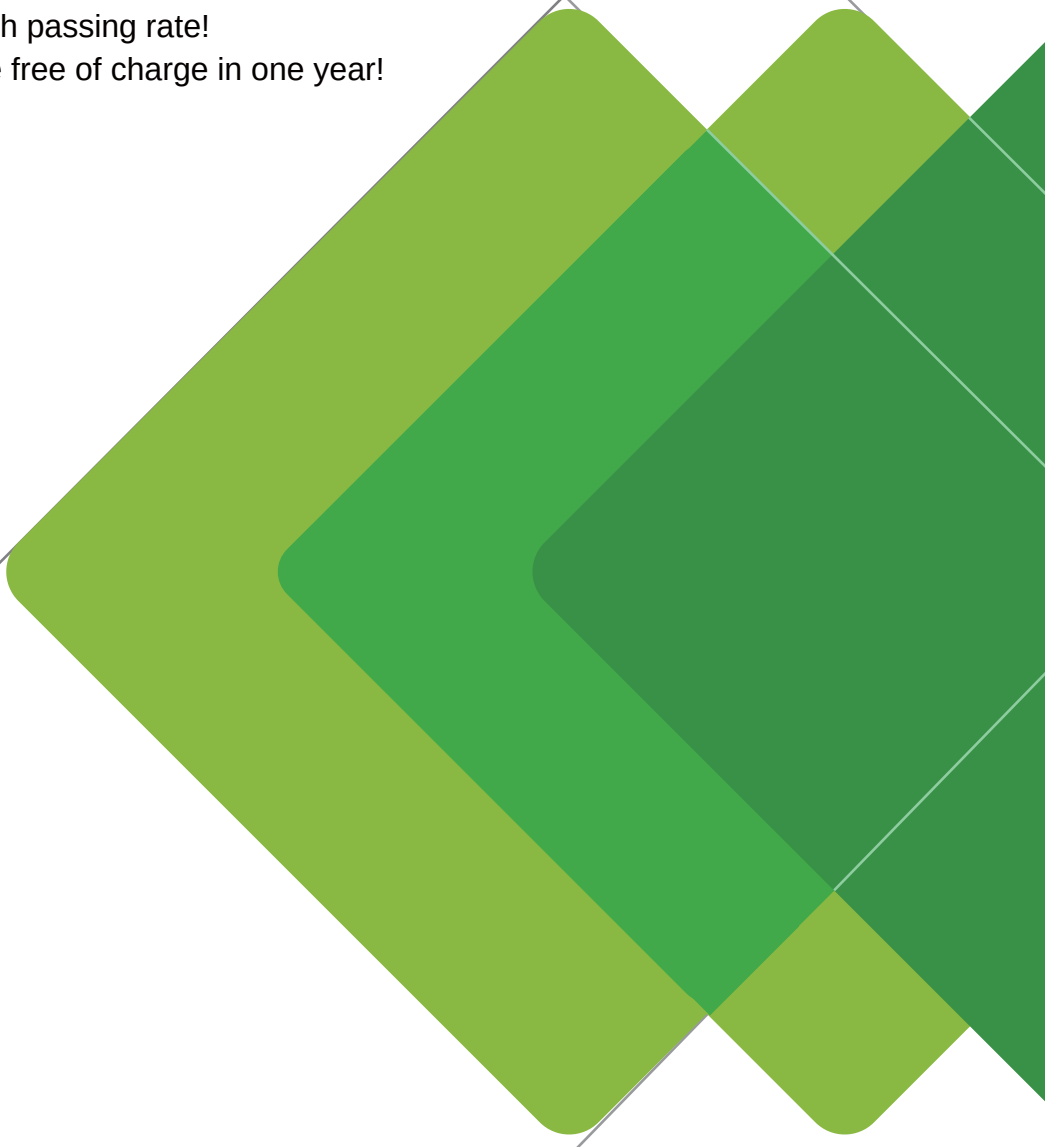

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Exam : **S90-05A**

Title : SOA Technology Lab

Version : Demo

1.Your company has developed a service that allows your customers to check the status of an order. The schema for the service is shown here:

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="OrderStatusLookup">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="customerID" type="xsd:string"/>
        <xsd:element name="orderID" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="OrderStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="orderID" type="xsd:string"/>
        <xsd:element name="status" type="xsd:string"/>
        <xsd:element name="comments" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

A new customer plans to use your service, but they want to test it first. They have asked for two sample XML documents that show typical input and output message content. Which of the following pairs of XML elements will validate with the schema shown above?

A.
```
<OrderStatusLookup>
        <customerID>12345</customerID>
        <orderID>44F12</orderID>
      </OrderStatusLookup>

      <OrderStatusResponse>
        <orderID>44F12</orderID>
        <status>PENDING</status>
        <comments>Waiting for back order to be filled</comments>
        <comments>Will advise when in stock.</comments>
      </OrderStatusResponse>
```

B.
```
<OrderStatusLookup>
        <customerID>12345</customerID>
        <orderID>44F12</orderID>
      </OrderStatusLookup>

      <OrderStatusResponse>
        <orderID>44F12</orderID>
        <comments>Waiting for back order to be filled</comments>
      </OrderStatusResponse>
```

C.
```
<OrderStatusLookup>
        <orderID>44F12</orderID>
        <customerID>12345</customerID>
      </OrderStatusLookup>

      <OrderStatusResponse>
        <orderID>44F12</orderID>
        <status>PENDING</status>
        <comments>Waiting for back order to be filled</comments>
      </OrderStatusResponse>
```

D. None of the above.

A. Option A
B. Option B
C. Option C
D. Option D
Answer: D

2.A partner organization has given you samples of XML documents retrieved from their product information database. The three samples they have sent you are: Because they are an important partner, you have agreed to write a service to accept XML documents in their format. However, they did not send you a schema, so you are tasked with defining a schema that will correctly validate their documents. Which of the following XML schemas will successfully validate each of the above XML document fragments.?

```
<product>
  <number>123DD</number>
  <name>3-Compartment Travel Kit</name>
  <quantity>2</quantity>
</product>

<product>
  <number>445AB</number>
  <quantity>1</quantity>
  <name>13 inch. Rolling Suitcase</name>
</product>

<product>
  <number>943AC</number>
  <quantity>1</quantity>
  <name>Deluxe Travel Pillow</name>
</product>
```

A.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="product">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="number" type="xsd:string"/>
        <xsd:element name="name" type="xsd:string"/>
        <xsd:element name="quantity" type="xsd:integer"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

B.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="product">
    <xsd:complexType>
      <xsd:all>
        <xsd:element nane="quantity" type="xsd:integer"/>
        <xsd:element nane="number" type="xsd:string"/>
        <xsd:element nane="name" type="xsd:string"/>
      </xsd:all>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

C.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="product">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element nane="number" type="xsd:string"/>
        <xsd:element nane="name" type="xsd:string"/>
        <xsd:element nane="quantity" type="xsd:integer"/>
        <xsd:element nane="name" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

D. None of the above.

A. Option A
B. Option B
C. Option C
D. Option D
Answer: B

3.Your company has developed a PO service that allows customers to submit purchase order documents. The message sent by a customer must be based on a predefined "purchaseOrder" element and the message received by the customer is based on a "messageAcknowledgement" element. These two elements are defined in the following two separate XML Schema definitions: The "purchaseOrder.xsd" schema:

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.example.org/po">
  <xsd:element name="purchaseOrder">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="number" type="xsd:string"/>
        <xsd:element name="date" type="xsd:date"/>
        <xsd:element name="amount" type="xsd:decimal"/>
        <xsd:element name="description" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

The "ack.xsd" schema:

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.example.org/ack">
  <xsd:element name="messageAcknowledgement">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="number" type="xsd:string"/>
        <xsd:element name="dateReceived" type="xsd:date"/>
        <xsd:element name="status" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

Note that these two schemas have different namespaces. That is because the "purchaseOrder.xsd" schema is specific to purchase order-related functions, while the "ack.xsd" schema is more generic and used for a variety of different purposes.

A.
```
<definitions name="POService"
        targetNamespace="http://www.example.org/wsdl/po"
        xmlns="http://schemas.xmlsoap.org/wsdl/"
        xmlns:po="http://www.example.org/po"
        xmlns:ack="http://www.example.org/ack"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <types>
          <xsd:schema targetNamespace="http://www.example.org">
            <xsd:import namespace="http://www.example.org/po"
              schemaLocation="purchaseOrder.xsd"/>
            <xsd:import namespace="http://www.example.org/ack"
              schemaLocation="ack.xsd"/>
          </xsd:schema>
        </types>
        <message name="submitPOMessage">
          <part name="PO" element="po:purchaseOrder"/>
        </message>
        <message name="POAcknowledgement">
          <part name="PO" element="ack:messageAcknowledgement"/>
        </message>
        ...
      </definitions>
```

B.
```
<definitions name="POService"
        targetNamespace="http://www.example.org/wsdl/po"
        xmlns="http://schemas.xmlsoap.org/wsdl/"
        xmlns:po="http://www.example.org/po"
        xmlns:ack="http://www.example.org/ack"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <types>
          <xsd:schema targetNamespace="http://www.example.org">
            <xsd:import namespace="http://www.example.org/po"
              schemaLocation="purchaseOrder.xsd"/>
            <xsd:import namespace="http://www.example.org/po"
              schemaLocation="ack.xsd"/>
          </xsd:schema>
        </types>
        <message name="submitPOMessage">
          <part name="PO" element="po:purchaseOrder"/>
        </message>
        <message name="POAcknowledgement">
          <part name="PO" element="ack:messageAcknowledgement"/>
        </message>
        ...
      </definitions>
```

C.
```
<definitions name="POService"
        targetNamespace="http://www.example.org/wsdl/po"
        xmlns="http://schemas.xmlsoap.org/wsdl/"
        xmlns:po="http://www.example.org/po"
        xmlns:ack="http://www.example.org/ack"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <types>
          <xsd:schema targetNamespace="http://www.example.org">
            <xsd:import namespace="http://www.example.org/po"
              schemaLocation="purchaseOrder.xsd"/>
            <xsd:import namespace="http://www.example.org/ack"
              schemaLocation="ack.xsd"/>
          </xsd:schema>
        </types>
        <message name="submitPOMessage">
          <part name="PO" element="po:purchaseOrder"/>
        </message>
        <message name="POAcknowledgement">
          <part name="PO" element="po:messageAcknowledgement"/>
        </message>
        ...
      </definitions>
```

D. None of the above.

A. Option A
B. Option B
C. Option C
D. Option D
Answer: A

4.Your developer is asked to build a Timesheet service that is able to receive timesheet submissions for an internal payroll system. Service consumers need to be able to send this service request message based on a root "employeeHours" element within the SOAP message body. The "employeeHourse" element will contain "ernpID" and "hours" child elements. Furthermore, the service needs to return a message based on a "response" element that contains "empID" and "status" child elements.
Your developer comes to you with the following WSDL definition: The only revision you suggest is that the value of the "style" attribute of the "soap: binding" element be changed to "document" instead of "rpc". Why?

```
<definitions name="Timesheet"
  targetNamespace="http://www.example.org/wsdl/timesheet"
  xmlns:tns="http://www.example.org/wsdl/timesheet"
  xmlns:timesheet="http://www.example.org/timesheet"
  xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  <types>
    <xsd:schema
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      targetNamespace="http://www.example.org/timesheet">
      <xsd:element name="employeeHours">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="empID"
              type="xsd:integer"/>
            <xsd:element name="hours"
              type="xsd:decimal"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="response">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="empID"
              type="xsd:integer"/>
            <xsd:element name="status"
              type="xsd:string"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:schema>
  </types>
  <message name="TimesheetMessage">
    <part name="Timesheet"
      element="timesheet:employeeHours"/>
  </message>
  <message name="TimesheetResponse">
    <part name="Response"
      element="timesheet:response"/>
  </message>
  <portType name="TimesheetInterface">
    <operation name="SubmitTimesheet">
      <input message="tns:TimesheetMessage"/>
      <output message="tns:TimesheetResponse"/>
    </operation>
  </portType>
  <binding name="TimesheetBinding"
    type="tns:TimesheetInterface">
    <soap:binding style="rpc"
      transport="http://schemas.xmlsoap.org/soap/http"/>
    <operation name="SubmitTimesheet">
      <soap:operation
        soapAction="http://www.example.org/SubmitTimesheet"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
  </binding>
  ...
</definitions>
```

A. With a value of "rpc", the root element within the SOAP message body will have the name of the operation, and therefore cannot be named "employeeHours" as indicated by the requirements.
B. With a value of "rpc", the root element within the SOAP message body is unable to be part of an operation that contains both "input" and "output" elements.
C. The value of "rpc" is not a valid value for the "style" attribute.
D. None of the above.
Answer: A

5.You are a consultant helping a large bank implement an on-line banking service for its customers. The first operation you need to build is one that allows a customer to initiate a transfer of funds. You are presented with the following sample XML document that represents the funds transfer information that this operation needs to be able to receive:
<transfer>
< fromAccount>12345 </fromAccount>
< toAccount>44432 </toAccount>
<amount>2000</amount>
</transfer>
You are also provided with the following sample that shows that the response message sent by the service needs to return a single element with text content:
<transferStatus>SUCCESS</transferStatus>
Which of the following XML schemas will validate the two samples shown above?

A.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <xsd:element name="transfer">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="fromAccount" type="xsd:integer"/>
              <xsd:element name="toAccount" type="xsd:integer"/>
              <xsd:element name="amount" type="xsd:decimal"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="transferStatus">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="status" type="xsd:string"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:schema>
```

B.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <xsd:element name="transfer" type="transferType"/>
        <xsd:element name="fromAccount" type="xsd:integer"/>
        <xsd:element name="toAccount" type="xsd:integer"/>
        <xsd:element name="amount" type="xsd:decimal"/>
        <xsd:element name="transferStatus" type="xsd:string"/>
      </xsd:schema>
```

C.
```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <xsd:element name="transfer">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="fromAccount" type="xsd:integer"/>
              <xsd:element name="toAccount" type="xsd:integer"/>
              <xsd:element name="amount" type="xsd:decimal"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="transferStatus" type="xsd:string"/>
      </xsd:schema>
```

D. None of the above.

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C