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Exam : **EE0-411**

Title : Voice XML Application Developer Exam

Version : DEMO

1. Given the following VoiceXML code:

```
1:<vxml xmlns="http://www.w3.org/2001/vxml" version="2.0">
2:    <var name="accNum" expr="0"/>
3:    <form id="form1">
4:       <field name="field1" type="digits">
5:          <prompt> Please enter your PIN. </prompt>
6:          <filled>
7:             <assign name="accNum" expr="field1"/>
8:             <if cond="field1$.confidence &gt; 35 &amp;&amp; accNum &eq; '1234'">
9:                <prompt>You have entered the correct PIN.
10:                Now you can do your transactions.</prompt>
11:                <goto next="http://www.bank.com/transact.vxml"/>
12:          <else/>
13:                <prompt>I am not sure if I heard your PIN correctly.
14:                The PIN you entered was <value expr="accNum"/></prompt>
15:                <goto next="http://www.bank.com/error.vxml"/>
16:          </if>
17:       </filled>
18:    </field>
19:  </form>
20:</vxml>
```

The objective of this code is to ask callers to enter their PIN. Which line must be changed for this code to achieve its objective?

A. 7

B. 8

C. 11

D. 15

Answer: B

2. Which two code fragments write " rose " to a log? (Choose two.)

A. <log>rose</log>

B. <log name="rose">rose</log>

C. <var name="var1" expr="'rose'"/> <log><value expr="rose"/></log>

D. <var name="var1" expr="'rose'"/> <log><value expr="var1"/></log>

Answer: AD

3. Which SSML element allows you to specify the speed with which rendered output is played?

A. the<prompt> element, using the rate attribute

B. the <prosody>element, using the rate attribute

C. the <say-as> element, using the duration attribute

D. the<emphasis> element, using the duration attribute

Answer: B

4. The _____ attribute is used to identify the root document of a VoiceXML application.

A. root

B. main

C. parent

D. application

Answer: D

5. Which grammar rule recognizes these phrases?

Isaac Levi

Isaac the kid Levi

Isaac my friend Levi

Isaac Delbert Levi

Mao Yonghang

Mao the kid Yonghang

Mao my friend Yonghang

Mao Delbert Yonghang

D.

```
<rule name = "person_name">
     <ruleref name = "first_name"/>
     <ruleref special = "GARBAGE" />
     <ruleref name = "last_name"/>
</rule>
<rule name = "first_name">
     <one-of>
          <item> Isaac </item>
          <item> Mao </item>
     </one-of>
</rule>
<rule name = "last_name">
     <one-of>
          <item> Levi </item>
          <item> Yonghang </item>
    </one-of>
</rule>
```

A.
```
<rule name = "person_name">
     <one-of>
          <item> Isaac <ruleref special = "NULL"/> Levi</item>
          <item> Mao <ruleref special = "NULL"/> Yonghang </item>
     </one-of>
</rule>
```

B.
```
<rule name = "person_name">
     <one-of>
          <item> Isaac <ruleref special = "GARBAGE"/> Levi </item>
          <item> Mao <ruleref special = "GARBAGE"/> Yonghang </item>
     </one-of>
</rule>
```

C.
```
<rule name = "person_name">
     <one-of>
          <item> Isaac </item>
          <item> Mao </item>
     </one-of>
     <ruleref name = "GARBAGE" />
     <one-of>
          <item> Levi </item>
          <item> Yonghang </item>
     </one-of>
</rule>
```

A. picture

6. Which VoiceXML element can be used to transfer execution from one VoiceXML document to the other and return to the first VoiceXML document after the execution of the second VoiceXML document is completed?

A. <call>

B. <goto>

C. <submit>

D. <subdialog>

E. <function>

Answer: D

7. Given the following code fragment:

<field name="day_of_month" type="number>

<prompt>What day of the month?</prompt>

[_____]

</field>

Which code fragment should be inserted in the blank to ensure that the day_of_month is less than or equal to 31 and, if it is not, then require the user to reenter it .

A.
```
<if cond="day_of_month &gt; 31">
    <assign name="day_of_month" expr="undefined"/>
</if>
```

B.
```
<if cond="day_of_month &gt; 31">
    <clear namelist="day_of_month"/>
</if>
```

C.
```
<filled>
    <if cond="day_of_month &gt; 31">
        <clear namelist="day_of_month"/>
    </if>
</filled>
```

D.
```
<filled>
   <if cond="day_of_month &gt; 31">
      <reprompt/>
   </if>
</filled>
```

A. picture

8. Given the following VoiceXML code segment:

```
<?xml version="1.0" encoding="UTF-8"?>
<vxml xmlns="http://www.w3.org/2001/vxml" version="2.0">
      <var name="counter" expr="0"/>
      <form id="form1">
            <block>
                  <script>
                        counter = counter+1;
                  </script>
                  <goto next="#form2"/>
            </block>
      </form>
      <form id="form2">
            <block>
                  <assign name="counter" expr="counter+2"/>
                  <if cond="counter &lt; 10">
                        <goto next="#form1"/>
                  <else/>
                        <prompt>
                              The value of counter is <value expr="counter"/>
                        </prompt>
                  </if>
            </block>
      </form>
</vxml>
```

What is the value of counter variable when this VoiceXML is executed?

A. 5

B. 10

C. 11

D. 12

Answer: D

9. Which attribute of the break element can be used to specify a pause in VoiceXML 2.0?

A. time

B. pause

C. msecs

D. sleep

Answer: A

10. Given the following mixed initiative <form> :

```
<form id = "travel">
<initial><prompt> You want to travel from where to where? </prompt> </initial>
     <grammar root = "travel_leg" version = "1.0">
          <rule id = "travel_leg">
               [_________]
          </rule>
          <rule id = "departure_city">
               <item> from </item>
               <one-of>
                    <item> <tag> $ = "Portland" </tag> Portland </item>
                    <item> <tag> $ = "Seattle" </tag> Seattle </item>
               </one-of>
          </rule>
          <rule id = "destination_city">
              <item> to </item>
              <one-of>
                    <item> <tag> $ = "Portland"</tag> Portland </item>
                    <item> <tag> $ = "Seattle"</tag> Seattle </item>
              </one-of>
          </rule>
     </grammar>

     <field name = "departure_city">
        <prompt> From where? </prompt>
     </field>

     <field name = "destination_city">
        <prompt> to where? </prompt>
     </field>
</form>
```

Which code fragment should be placed in the empty brackets to allow the user to respond appropriately to the prompt

D.

```
<one-of>
      <item>
            <ruleref uri = "#departure_city"/>
            <ruleref uri = "#destination_city"/>
            <tag>
                  $.departure_city = $departure_city;
                  $.destination_city = $destination_city;
            </tag>
      </item>
      <item>
            <ruleref uri = "#departure_city"/>
            <tag>
                  $.departure_city = $departure_city;
            </tag>
      </item>
      <item>
            <ruleref uri = "#destination_city"/>
            <tag>
                  $.destination_city = $destination_city;
            </tag>
      <item>
</one-of>
```

A. <ruleref uri = "#departure_city"/>

B. <ruleref uri = "#destination_city"/>

C. <ruleref uri = "#departure_city destination_city"/>

D. picture

Answer: D

11. What happens when the user partially answers the initial prompt of a mixed initiative dialog?

A. The user is prompted for each field that the user did not supply.

B. The prompt is repeated again so the user may completely answer.

C. The user is transferred to the next <dialog> element in the application.

D. The user is prompted for each and every field in the mixed initiative form.

Answer: A

12. Given the following VoiceXML code:

```
1:<?xml version="1.0" encoding="UTF-8"?>
2:<vxml xmlns="http://www.w3.org/2001/vxml" version="2.0">
3:     <catch event="custom.event">
4:           <prompt> in custom event </prompt>
5:     </catch>
6:     <form>
7:           <field name="field1" type="boolean">
8:                 <prompt> please say yes or no </prompt>
9:                 <filled>
10:                      You said <value expr="field1"/>
11:                </filled>
12:          </field>
13:    </form>
14:</vxml>
```

Which line, replaced at line 3, causes the message "in custom event" to be played for each and every event?

A. <catch>

B. <catch event="*">

C. <catch event="all">

D. <catch events="all">

Answer: A

13. Which property do you set to limit the number of elements in the application.lastresult$ array?

A. maxnbest

B. maxresults

C. numresults

D. application.lastresult.length

Answer: A

14. Which dialog can be produced by the following <form>?

```
<form id = "example3">
      <field name = "debit" type="number">
           <prompt> How much does it cost? </prompt>
           <filled>
              <if cond = "debit &gt; 400">
                  <clear namelist = "debit"/>
              </if>
           </filled>
      </field>
      <block>
           <prompt> You said <value expr = "debit"/> </prompt>
      </block>
</form>
```

A. Computer: How much does it cost? User: 500 Computer: You said 500

B. Computer: How much does it cost? User: 500 Computer: How much does it cost? User: 200

Computer: You said 200

C. Computer: How much does it cost? User: 600 Computer: How much does it cost? User: 800 Computer: You said 800

D. Computer: How much does it cost? User: 600 Computer: How much does it cost? User: (no response) Computer: You said 600.

Answer: B

15. Given the following mixed initiative <form>:

```
<form id = "travel">
      <initial>
            <prompt> You want to travel from where to where? </prompt>
      </initial>
      <grammar version = "1.0" root="travel_leg">
            <rule id = "travel_leg">
                  <one-of>
                        <item>
                              <ruleref uri = "#departure_city"/>
                              <ruleref uri = "#destination_city"/>
                              <tag>
                                    $.departure_city = $departure_city;
                                    $.destination_city = $destination_city;
                              </tag>
                        </item>
                        <item>
                              <ruleref uri = "#departure_city"/>
                              <tag>
                                    $.departure_city = $departure_city;
                              </tag>
                        </item>
                        <item>
                              <ruleref uri = "#destination_city"/>
                              <tag>
                                    $.destination_city = $destination_city;
                              </tag>
                        </item>
                  </one-of>
            </rule>
                  [ _________ ]
      </grammar>
```

```
      <field name = "departure_city">
            <prompt> From where? </prompt>
      <field>

      <field name = "destination_city">
            <prompt> to where? </prompt>
      </field>

</form>
```

Which grammar rules allow a user to say "between Portland and Seattle?

A.
```
<rule id = "destination_city">
     <ruleref = "#city">
</rule>

<rule id = "destination_city">
     <ruleref = "#city">
</rule>

<rule id = "city">
     <one-of>
          <item>  Portland </item>
          <item>  Seattle </item>
     </one-of>
</rule>
```

B.
```
<rule id = "departure_city">
     <one-of>
          <item>  Portland </item>
          <item>  Seattle </item>
     </one-of>
</rule>
<rule id = "destination_city">
     <one-of>
          <item>  Portland </item>
          <item>  Seattle </item>
     </one-of>
</rule>
```

C.
```
<rule id = "departure_city">
     <item> from </item>
     <one-of>
          <item>  Portland </item>
          <item>  Seattle </item>
     </one-of>
</rule>
<rule id = "destination_city">
     <item> to </item>
     <one-of>
          <item> Portland <tag/> </item>
          <item> Seattle <tag/> </item>
     </one-of>
</rule>
```

D.
```
<rule id = "departure_city">
     <one-of>
          <item>from Portland<tag>$="Portland" </tag></item>
          <item>from Seattle<tag>$="Seattle" </tag></item>
     </one-of>
</rule>
<rule id = "destination_city">
     <one-of>
          <item><tag>$="Portland"</tag> to Portland </item>
          <item><tag>$="Seattle"</tag> to Seattle </item>
     </one-of>
</rule>
```

A. picture

16. When the scope of a rule in a grammar is not specified, the scope is _____.

A. static

B. public

C. private

D. inherited from the grammar's root rule

Answer: C

17. Given the following code fragment:

```
<var name="a" expr="1" />
<form>
      <var name="a" expr="3" />
      <block>
            <assign name="a" expr="document.a+4" />
            <prompt> The value of a is <value expr="a"/> </prompt>
      </block>
</form>
```

What value of "a" is spoken?

A. 1

B. 3

C. 5

D. 7

Answer: C

18. Given the following VoiceXML code:

```
1:<vxml xmlns="http://www.w3.org/2001/vxml" version="2.0">
2:   <var name="iterationNum" expr="0"/>
3:   <form id="form1">
4:      <field name="field1" type="digits">
5:         <prompt> Please enter your PIN. </prompt>
6:         <filled>
7:            <assign name="iterationNum" expr="iterationNum+1"/>
8:            <if cond="field1 == '1234'">
9:               <prompt>You have entered the correct PIN.
10:               Now you can do your transactions.</prompt>
11:               <goto next="http://www.bank.com/transact.vxml"/>
12:         <else/>
13:               <prompt>That PIN is incorrect.</prompt>
14:               <if cond="iterationNum &lt; 3">
15:                  <prompt>Please try again.</prompt>
16:                  <submit next="#form1"/>
17:               <else/>
18:                  <prompt>You have exceeded the number of attempts.</prompt>
19:               </if>
20:         </if>
21:      </filled>
22:   </field>
23:  </form>
24:</vxml>
```

The objective of the code is to get the caller to enter the correct PIN (1234) within three attempts.

Which line needs to change to achieve the objective?

A. 8

B. 9

C. 15

D. 16

Answer: D

19. For what is the <object> tag used?

A. assigns 'false' to boolean variables

B. provides an interface to platform-specific functionality

C. allows polymorphic reference to an ECMAScript object

D. creates objects for use in dynamically creating VoiceXML documents using Java

Answer: B

20. Given the code fragment:

```
<form id = "date">
   <subdialog name = "month_name"  src="#get_month"/>
      <filled>
         <log>The month is <value expr="month_name.month"/></log>
      </filled>
</form>
```

Which is a correct subdialog month_name ?

A.
```
<form id="get_month">
     <field name = "month">
          <prompt> What month? </prompt>
          <grammar type="application/grammar+xml"
              src = "www.voicexml.org/month.gram"/>
     </field>
     <filled>
        <return/>
     </filled>
</form>
```

B.
```
<form id="get_month">
     <field name = "month">
          <prompt> What month? </prompt>
          <grammar type="application/grammar+xml"
              src = "www.voicexml.org/month.gram"/>
     </field>
     <filled>
          <return namelist = "month"/>
     </filled>
</form>
```

C.
```
<form id="get_month">
     <field name = "month">
          <prompt> What month? </prompt>
          <grammar type="application/grammar+xml"
              src = "www.voicexml.org/month.gram"/>
     </field>
     <filled>
          <return namelist = "answer"/>
     </filled>
</form>
```

D.
```
<form id="get_month">
     <field name = "answer">
          <prompt> What month? </prompt>
          <grammar type="application/grammar+xml"
              src = "www.voicexml.org/month.gram"/>
     </field>
     <filled>
          <return namelist = "month"/>
     </filled>
</form>
```

A. picture