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1. ✔ What is "serialization" when we are talking about web services?
   - ⦿ The act of taking data stored in a program and formatting it so it can be sent across the network
   - ◯ Sorting all the data stored in a tuple
   - ◯ Marking each network packet so it can be put back into order on the receiving system
   - ◯ Making it so that dictionaries can maintain their keys in sorted order

2. ✔ What is the name of the Python library to parse XML data?
   - ⦿ xml.etree.ElementTree
   - ◯ xml.json
   - ◯ xml-misc
   - ◯ xml2

3. ✔ Which of the following are not commonly used serialization formats?
   - ☑ TCP
   - ☑ HTTP
   - ☐ XML
   - ☐ JSON
   - ☑ Dictionaries

4. ✔ What is the method to cause Python to parse XML that is stored in a string?
   - ◯ extract()
   - ◯ xpath()
   - ⦿ fromstring()
   - ◯ parse()
   - ◯ readall()

5. ✔ In this XML, which are the "complex elements"?

```
<people>
    <person>
        <name>Chuck</name>
        <phone>303 4456</phone>
    </person>
    <person>
        <name>Noah</name>
        <phone>622 7421</phone>
    </person>
</people>
```

   - ☐ phone
   - ☐ Noah
   - ☑ people
   - ☑ person
   - ☐ name

6. ✔ In this XML, which are the "simple elements"?

```
<people>
    <person>
        <name>Chuck</name>
        <phone>303 4456</phone>
    </person>
    <<person>
            <name>Noah</name>
        <phone>622 7421</phone>
    </person>
</people>
```

   - ☑ phone
   - ☐ Noah
   - ☐ people
   - ☐ person
   - ☑ name

7. ✔ In the following XML, which are attributes?

```
<person>
    <name>Chuck</name>
    <phone type="intl">
        +1 734 303 4456
    </phone>
    <email hide="yes" />
</person>
```

   - ☐ name
   - ☐ email

- [x] type
- [x] hide
- [ ] person

8. ✔ In the following XML, which node is the parent node of node e

```
<a>
   <b>X</b>
   <c>
      <d>Y</d>
      <e>Z</e>
   </c>
</a>
```

- (•) c
- ( ) e
- ( ) b
- ( ) a

9. ✔ Looking at the following XML, what text value would we find at path "/a/c/e"

```
<a>
   <b>X</b>
   <c>
      <d>Y</d>
      <e>Z</e>
   </c>
</a>
```

- ( ) a
- ( ) e
- (•) Z
- ( ) Y
- ( ) b

10. ✔ What is the purpose of XML Schema?

- (•) To establish a contract as to what is valid XML
- ( ) To compute SHA1 checksums on data to make sure it is not modified in transit
- ( ) To transfer XML data reliably during network outages
- ( ) A Python program to tranform XML files

11. ✔ If you were building an XML Schema and wanted to limit the values allowed in an xs:string field to only those in a particular list, what XML tag would you use in your XML Schema definition?

- ( ) xs:element
- ( ) maxOccurs
- (•) xs:enumeration
- ( ) xs:sequence
- ( ) xs:complexType

12. ✔ For this XML Schema:

```
<xs:complexType name="person">
   <xs:sequence>
      <xs:element name="lastname" type="xs:string"/>
      <xs:element name="age" type="xs:integer"/>
      <xs:element name="dateborn" type="xs:date"/>
   </xs:sequence>
</xs:complexType>
```

And this XML,

```
<person>
   <lastname>Severance</lastname>
   <Age>17</Age>
   <dateborn>2001-04-17</dateborn>
</person>
```

Which tag is incorrect?

- ( ) lastname
- ( ) dateborn
- (•) Age
- ( ) age
- ( ) person

13. ✔ What does the "Z" mean in this representation of a time:

```
2002-05-30T09:30:10Z
```

- (•) This time is in the UTC timezone
- ( ) This time is Daylight Savings Time
- ( ) The hours value is in the range 0-12
- ( ) The local timezone for this time is New Zealand

14. ✔ What is a good time zone to use when computers are exchanging data over APIs?

- (•) Universal Time / GMT
- ( ) The local time zone of the sending computer without daylight savings time
- ( ) The local time zone of the sending computer

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○ The local time zone of the receiving computer

15. ✔ Which of the following dates is in ISO8601 format?

○ 2002-05-30T09:30:10Z

○ May 30, 2002

○ 2002-May-30

○ 05/30/2002