

Chapter 13.1

Question 1

What is "serialization" when we are talking about web services?

- ☐ Making it so that dictionaries can maintain their keys in sorted order
 - ☐ Marking each network packet so it can be put back into order on the receiving system
 - ☒ 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
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Question 2

Which of the following are **not** commonly used serialization formats?

- ☒ Dictionaries
 - ☒ HTTP
 - ☐ JSON
 - ☐ XML
 - ☒ TCP
-

Question 3

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>
```

- ☒ name
 - ☐ people
 - ☐ Noah
 - ☒ phone
 - ☐ person
-

Question 4

In the following XML, which are attributes?

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

- ☐ name
 - ☐ email
 - ☐ person
 - ☒ type
 - ☒ hide
-

Question 5

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>
```

- ☐ e
 - ☒ c
 - ☐ b
 - ☐ a
-

Question 6

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>
```

- ☐ e
 - ☐ Y
 - ☐ a
 - ☒ Z
 - ☐ b
-

Question 7

What is the purpose of XML Schema?

- ☒ To establish a contract as to what is valid XML
 - ☐ A Python program to transform XML files
 - ☐ To transfer XML data reliably during network outages
 - ☐ To compute SHA1 checksums on data to make sure it is not modified in transit
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Question 8

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
 - ☒ xs:enumeration
 - ☐ maxOccurs
 - ☐ xs:sequence
 - ☐ xs:complexType
-

Question 9

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

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

- ☒ This time is in the UTC timezone
 - ☐ The hours value is in the range 0-12
 - ☐ The local timezone for this time is New Zealand
 - ☐ This time is Daylight Savings Time
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Question 10

Which of the following dates is in ISO8601 format?

- ☐ 05/30/2002
 - ☐ May 30, 2002
 - ☐ 2002-May-30
 - ☒ 2002-05-30T09:30:10Z
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