**Semi-structured: XML and JSON Quiz**

**Question 1**

What is an element in XML?

* Start tag, content and end tag, including subelements.

**Question 2**

Which of the following is not a necessary condition for well-formed XML?

* There can be no tags inside an element.

**Question 3**

Which of the following is **not** well-formed XML?

* <note>

<type/>"sms"

<to>Lee Lin Chin</to>

<from>Jonathan Holmes</from>

<heading>Reminder</heading>

<message>Don't forget the ice cream this weekend!</message>

</note>

**Question 4**

*<!ELEMENT name (#PCDATA)>* is notation from?

* An XML DTD document.

**Question 5**

What are XSL and XSLT used for?

* For selecting elements from an XML document and rendering them in an output format.

**Question 6**

Given this document:

*<orders>*

*<year>2016</year>*

*<order type=“retail”>*

*<customer>*

*John Lee*

*</customer>*

*<item>*

*<name>Tablet</name>*

*<quantity> 1 </quantity>*

*<price> $119.99</price>*

*</item>*

*<delivery>*

*2016-01-20*

*</delivery>*

*</order>*

*</orders>*

Which of the following XPath/XQuery expressions would find the value of the price element?

* orders/order/item/price/text()

**Question 7**

JSON is

* a new Javascript-based notation that can represent objects as a tree structure.

**Question 8**

Which is a correct JSON array?

* ["Seven", 9, 8]

**Question 9**

Which is a correct JSON object?

* {name:"Bob", age:37}

**Question 10**

Given this XML document:

*<CATALOG>*

*<PLANT>*

*<COMMON>Bloodroot</COMMON>*

*<BOTANICAL>Sanguinaria canadensis</BOTANICAL>*

*<ZONE>4</ZONE>*

*<LIGHT>Mostly Shady</LIGHT>*

*<PRICE>$2.44</PRICE>*

*<AVAILABILITY>031599</AVAILABILITY>*

*</PLANT>*

*</CATALOG>*

Which is the correct JSON equivalent?

* *{*

*"CATALOG": {*

*"PLANT": {*

*"COMMON": "Bloodroot",*

*"BOTANICAL": "Sanguinaria canadensis",*

*"ZONE": "4",*

*"LIGHT": "Mostly Shady",*

*"PRICE": "$2.44",*

*"AVAILABILITY": "031599"*

*}*

*}*

*}*