## Question I (Multiple choice questions) (10 points) In the following choose <u>one correct statement</u> for each statement by <u>circling the</u> correct answer

correct answe				
1. Which of the fo	ollowing is used to b. DTD	define the structuc. XSLT	are of an XML document? d. XPath	
2. Which of the fo		transform an XM	L document into another format	such as HTML or
PDF? a. XQuery	b. DTD	c. XSLT	d. XPath	
	ollowing is used to	•		
a. XQuery	b. DTD	c. XSLT	d. XPath	
4. Which of the fo	bllowing is used to b. DTD	locate specific ele c. XSLT	ements or attributes within an XM d. XPath	ML document?
	•		across multiple sites or locations elational database d. Object-ori	
6. Which of the fo	ollowing is used to b. DTD	define the structuc. XSLT	are and content of an XML document. A XPath	nent?
		age used to query KQuery	and transform XML data? d. C++	
8. Which of the fo	ollowing is used to b. DTD	define the presen	tation of an XML document? SLT d. XPath	
		age used to access Query	s and manipulate data stored in X d. C++	ML format?
			on a single computer or server? Relational database d. Object-ori	ented database
Question 2)				

Write an XML document that represents a list of employees, with each employee having a name, job title, department, and salary.

## Question III (5 points)

Write an XSLT stylesheet that transforms an XML document with the following structure:

```
<orders><order> <item>...</item>
<price>...</price><quantity>...</quantity></order>...</orders> into an
HTML table with three columns: "Item", "Price", and "Quantity", and a
fourth column that calculates the total price of each order.
```

## Question V (4 points)

Create an external DTD for an XML document with the following structure: <br/>

## Question VI (8 points 2 points for each part) Consider the following XML code:

```
library>
 <book>
  <title>The Great Gatsby</title>
  <author>F. Scott Fitzgerald</author>
  <price>15.99</price>
 </book>
 <book>
  <title>To Kill a Mockingbird</title>
  <author>Harper Lee</author>
  <price>12.99</price>
 </book>
 <book>
  <title>The Catcher in the Rye</title>
  <author>J.D. Salinger</author>
  <price>9.99</price>
 </book>
</library>
```

- **A-** Using the above XML, write an XPath expression that selects all `<book>` elements that have a <price>` element with a value greater than 20.
- **B-** Using the above XML, write an XPath expression that selects the <title> element of the first <book> element in the following XML document: