XML EXERCISES

1. Create XML document for the following data: Student Registration Form Name Rahul Age 16 Gender Male Course C Programming

2. Check whether the following XML documents are well formed. If it is not well formed, correct the errors. <?xml version="1.0" encoding="iso-8859-1"?> <message> <email> <header> <sender>me@wipro.com</sender> <recipient>you@wipro.com</recipient> </header> <subject>Re: XML </subject> <text>I'm working on XML now. </email> </Messag

3. Develop DTD for the below given XML document: <address> <name>Manju</name> <company>Wipro</company> <phone>9988776655</phone> </address>

4. Develop DTD file for the below given XML document:

<?xml version="1.0"?>

<?xml-stylesheet href="catalog.xsl" type="text/xsl"?>

<!DOCTYPE catalog SYSTEM "catalog.dtd">

<item_number>QWZ5671</item_number>

<price>39.95</price>

<size description="Medium">

<color_swatch image="red_cardigan.jpg">Red</color_swatch>

<color_swatch image="burgundy_cardigan.jpg">Burgundy</color_swatch>

</size>

<size description="Large">

<color_swatch image="red_cardigan.jpg">Red</color_swatch>

<color_swatch image="burgundy_cardigan.jpg">Burgundy</color_swatch>

</size>

<catalog_item gender="Women's">

<item_number>RRX9856</item_number>

<price>42.50</price>

<size description="Small">

<color_swatch image="red_cardigan.jpg">Red</color_swatch>

<color_swatch image="navy_cardigan.jpg">Navy</color_swatch>

<color_swatch image="burgundy_cardigan.jpg">Burgundy</color_swatch>

</size>

<size description="Medium">

<color_swatch image="red_cardigan.jpg">Red</color_swatch>

<color_swatch image="navy_cardigan.jpg">Navy</color_swatch>

<color_swatch image="burgundy_cardigan.jpg">Burgundy</color_swatch>

<color_swatch image="black_cardigan.jpg">Black</color_swatch>

</size>

<size description="Large">

<color_swatch image="navy_cardigan.jpg">Navy</color_swatch>

<color_swatch image="black_cardigan.jpg">Black</color_swatch>

</size>

```
<size description="Extra Large">
<color_swatch image="burgundy_cardigan.jpg">Burgundy</color_swatch>
<color_swatch image="black_cardigan.jpg">Black</color_swatch>
</size>
</catalog_item>
</product>
</catalog>
```

5. Develop an XML file following the DTD file given below:

```
<!DOCTYPE TVSCHEDULE [
<!ELEMENT TVSCHEDULE (CHANNEL+)>
<!ELEMENT CHANNEL (BANNER,DAY+)>
<!ELEMENT BANNER (#PCDATA)>
<!ELEMENT DAY (DATE,(HOLIDAY|PROGRAMSLOT+)+)>
<!ELEMENT HOLIDAY (#PCDATA)>
<!ELEMENT DATE (#PCDATA)>
<!ELEMENT PROGRAMSLOT (TIME,TITLE,DESCRIPTION?)>
<!ELEMENT TIME (#PCDATA)>
<!ELEMENT TITLE (#PCDATA)>
<!ELEMENT DESCRIPTION (#PCDATA)>
<!ATTLIST TVSCHEDULE NAME CDATA #REQUIRED>
<!ATTLIST CHANNEL CHAN CDATA #REQUIRED>
<!ATTLIST PROGRAMSLOT VTR CDATA #IMPLIED>
<!ATTLIST TITLE RATING CDATA #IMPLIED>
<!ATTLIST TITLE LANGUAGE CDATA #IMPLIED>
]>
```

6. Create namespaces for the following set of tags.

Student- Root tag
StudentID
Theory Marks
PracticalMarks
TotalMarks
Grade
Student- Root tag
StudentID
Name
DOB
Gender
Course

7. Avoid Naming conflict in the following XML document:

```
<Phone>
<name>Moto E</name>
<ModelNo>123</ModelNo>
<Processor> Qualcomm Snapdragon 200 </Processor>
<Battery>2390 mAh</Battery>
</Phone>
<Phone>
```

```
<name>Beetel M71 Landline</name>
<ModelNo>456</ModelNo>
<Display>LCD Screen</Display>
<Corded>Yes</Corded>
</Phone>
```

8. Create and XSD file for the XML document given in the DTD Question no: 1
9. Create an XSD file for the XML document given in the DTD Question no: 2
10. Create an XML file following the below given XSD:

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name='classroom'>
<xs:complexType>
<xs:sequence>
<xs:element name='student' type='StudentDetails' minOccurs='0' maxOccurs='unbounded' />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:complexType name="StudentDetails">
<xs:sequence>
<xs:element name="firstname" type="xs:string"/>
<xs:element name="lastname" type="xs:string"/>
<xs:element name="division" type="xs:string"/>
<xs:element name="marks" type="xs:positiveInteger"/>
</xs:sequence>
<xs:attribute name='rollno' type='xs:positiveInteger'/>
</xs:complexType>
</xs:schema>
```