

1. Create and 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>
</Message>
```

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">
<catalog>
  <product description="Cardigan Sweater" product_image="cardigan.jpg">
    <catalog_item gender="Men's">
      <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>
```



```
<!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 HandsOn section Exercise 1
9. Create an XSD file for the XML document given in the DTD HandsOn section Exercise 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>
```