Experiment No. 8

Student Name:	Anil	UID:	21BNM2101
Branch:	BSC CSM	Section/Group:	A
Semester:	5	Date of Performance:	30-10-23
Subject Name:	Web Design Lab	Subject Code:	21SCP-322

Statement	(a) Create XML file to store student information like Enrollment Number, Name, Mobile Number, Email Id. (b) Create DTD for above XML File. Create DTD for above XML File (c) Create XML Schema for above practical. (d) Create XSL file to convert above XML file into XHTML file.
Aim	Create DTD for XML File. Convert above XML file into XHTML file.
Objectives	Working with XML, DTD and XSL files.
Language	XML, DTD, XSL, XHTML

Code:

(a)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<students>
 <student>
  <enrollment_number>101</enrollment_number>
  <name>John Doe</name>
  <mobile_number>1234567890</mobile_number>
  <email>john@example.com</email>
 </student>
 <student>
  <enrollment_number>102</enrollment_number>
  <name>Jane Smith</name>
  <mobile_number>9876543210</mobile_number>
  <email>jane@example.com</email>
```

```
  </student>
  <!-- Add more student records as needed -->
</students>
```

(b)
```
<!ELEMENT students (student+)>
<!ELEMENT student (enrollment_number, name, mobile_number, email)>
<!ELEMENT enrollment_number (#PCDATA)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT mobile_number (#PCDATA)>
<!ELEMENT email (#PCDATA)>
```

(c)
```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="students">
   <xs:complexType>
    <xs:sequence>
      <xs:element name="student" type="xs:complexType" maxOccurs="unbounded"/>
</xs:sequence>
   </xs:complexType>
  </xs:element>
  <xs:element name="enrollment_number" type="xs:string"/>
  <xs:element name="name" type="xs:string"/>
  <xs:element name="mobile_number" type="xs:string"/>
  <xs:element name="email" type="xs:string"/>
</xs:schema>
```

(d)
```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/students">
 <html>
 <head>
   <title>Student Information</title>
 </head>
 <body>
```

```
<h1>Student Information</h1>
<table border="1">
 <tr>
  <th>Enrollment Number</th>
  <th>Name</th>
  <th>Mobile Number</th>
  <th>Email</th>
 </tr>
 <xsl:for-each select="student">
  <tr>
   <td><xsl:value-of select="enrollment_number"/></td>
   <td><xsl:value-of select="name"/></td>
   <td><xsl:value-of select="mobile_number"/></td>
   <td><xsl:value-of select="email"/></td>
  </tr>
 </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

S.N.	Parameters	Marks Obtained	Maximum Marks
1.	Conduct of Experiment		12
2.	Viva-voce		10
3.	Submission of Work Sheet		08