

**1. a) Create an XML document (5 students info)**

**b) Validate using DTD**

```
<?xml version="1.0"?>
<!DOCTYPE class [
<!ELEMENT class (student)>
<!ELEMENT student (name,mobno,eid)>
<!ATTLIST student id CDATA #REQUIRED>
<!ELEMENT name (#PCDATA)>
<!ELEMENT mobno (#PCDATA)>
<!ELEMENT eid (#PCDATA)>
]>
<class>
  <student id="1288">
    <name>Akshay</name>
    <mobno>8978937353</mobno>
    <eid>1288@gvpce.ac.in</eid>
  </student>
  <student id="1201">
    <name>Ramu</name>
    <mobno>89183821657</mobno>
    <eid>1201@gvpce.ac.in</eid>
  </student>
  <student id="1202">
    <name>Babu</name>
    <mobno>9318292901</mobno>
    <eid>1202@gvpce.ac.in</eid>
  </student>
</class>
```

## 2. a) Create an XML document (5 students info)

### b) Validate using XML schema

#### XML

```
<?xml version="1.0"?>
<class
xmlns="http://www.javatpoint.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.javatpoint.com 2.xsd">
  <student id="1288">
    <name>Akshay</name>
    <mobno>8978937353</mobno>
    <eid>1288@gvpce.ac.in</eid>
  </student>
  <student id="1201">
    <name>Ramu</name>
    <mobno>89183821657</mobno>
    <eid>1201@gvpce.ac.in</eid>
  </student>
  <student id="1202">
    <name>Babu</name>
    <mobno>9390838718</mobno>
    <eid>1202@gvpce.ac.in</eid>
  </student>
</class>
```

#### XSD

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.javatpoint.com" xmlns="http://www.javatpoint.com"
elementFormDefault="qualified">

  <xs:element name="class">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="student" type="studenttype"/></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="studenttype">
    <xs:sequence>
      <xs:element name="name" type="xs:string"/></xs:element>
      <xs:element name="id" type="xs:integer"/></xs:element>
      <xs:element name="eid" type="xs:string"/></xs:element>
      <xs:element name="mobno" type="xs:integer"/></xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

### 3. a) Create an XML document (5 students info)

#### b) Display data in a table using XSL

##### XML

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="3.xsl" ?>
<class>
  <student id="1288">
    <name>Akshay</name>
    <mobno>8978937353</mobno>
    <eid>1288@gvpce.ac.in</eid>
  </student>
  <student id="1201">
    <name>Ramu</name>
    <mobno>89183821657</mobno>
    <eid>1201@gvpce.ac.in</eid>
  </student>
  <student id="1202">
    <name>Babu</name>
    <mobno>9318292901</mobno>
    <eid>1202@gvpce.ac.in</eid>
  </student>
</class>
```

##### XSL

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
  <body>
    <h1 align="center">College</h1>
    <table border="3" align="center">
      <tr>
        <th>name</th>
        <th>id</th>
        <th>Mobno</th>
        <th>Email</th>
      </tr>
      <xsl:for-each select="college/teaching">
        <tr>
          <td><xsl:value-of select="name"/></td>
          <td><xsl:value-of select="id"/></td>
          <td><xsl:value-of select="mobno"/></td>
          <td><xsl:value-of select="eid"/></td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

#### 4.JDBC program to insert data into table by accepting i/p from the keyboard(student table->Rollno,Name,MobNo).

```
import java.sql.*;
import java.util.Scanner;
class JDBCInsertDemo
{
    public static void main(String ar[]) throws Exception
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","tiger");
        Statement st=con.createStatement();
        Scanner s=new Scanner(System.in);
        System.out.println("Enter your details");
        int rno=s.nextInt();
        String name=s.next();
        int mobno=s.nextInt();
        String query="insert into student values('"+rno+"','"+name+"','"+mobno+"')";
        int n=st.executeUpdate(query);
        if(n>0){
            System.out.println("1 row inserted");
        }
        else{
            System.out.println("Unsucessful");
        }
        st.close();
        con.close();
        sc.close();
    }
}
```

#### 5.JDBC program to display the data of Students table in console.

```
import java.sql.*;
class JdbcDemo
{
    public static void main(String ar[]) throws Exception
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","tiger");
        Statement st=con.createStatement();
        String query="select * from student";
        ResultSet rs=st.executeQuery(query);
        while(rs.next())
        {
            System.out.print(rs.getString(1)+"    "+rs.getString(2)+"    "+rs.getString(3));
            System.out.println();
        }
    }
}
```

## 6. JDBC program to update a students mobleno when rollno is given using

PreparedStatement.

```
import java.sql.*;
class PreparedStatementDemo
{
    public static void main(String ar[]) throws Exception
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","1288");
        PreparedStatement ps1=con.prepareStatement("update student set mobno=? where
rno=?");
        ps1.setString(1,987654321);
        ps1.setInt(2,1202);
        ps1.executeUpdate();
        ps1.close();
        con.close();
    }
}
```

## 7. JDBC program to display the mobleno of a student when his rollno is given using CallableStatement.(rollno->i/p,mobleno->o/p)

```
import java.sql.*;
import java.util.*;
class test
{
    public static void main(String ar[]) throws Exception
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","tiger");
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter Rollnumber:");
        int r=sc.nextInt();
        CallableStatement cs=con.prepareCall("{call data(?,?)}");
        cs.setInt(1,r);
        cs.registerOutParameter(2,Types.INTEGER);
        cs.execute();
        System.out.print("Mobile Number is ");
        System.out.println(cs.getInt(2));
        sc.close();
    }
}
```

// Data Procedure Creation:

```
// 1 create or replace procedure data(rno in number,mobno out number)
// 2 is
// 3 begin
// 4 select mobleno into mobno from student1 where rollno=rno;
// 5 commit;
// 6 end;
// 7 /
```

## 8.To check authenticity of user using Servlet or jsp for login table.

```
<!DOCTYPE html>
<html>
<head>
<title> Login Form </title>
</head>
<body>
<form name="rf" action="9.jsp" method="post">
<p><label for="uname">Username: </label>
    <input type="text" name="uname" id="uname" size="20"/>
</p>
<p><label for="passwd">Password: </label>
    <input type="password" name="passwd" id="passwd" size="20"/>
</p>

<p>
    <input type="submit" value="Signin">
</p>
</form>
</body>
</html>
```

### JSP

```
<html>
<body>
<%@ page import="java.sql.*"%>
<%! int n=5;%>
<%=n %>
<%
    String username=request.getParameter("uname");
    String password=request.getParameter("passwd");
    out.println("Username:"+username);
    out.println("Password:"+password);
    Class.forName("oracle.jdbc.driver.OracleDriver");
    out.println("Driver Loaded");
    Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","1288");
    out.println("Connected to Database");
    String query="select * from logincheck where username=? and password=?";
    PreparedStatement ps=con.prepareStatement(query);
    ps.setString(1,username);
    ps.setString(2,password);
    ResultSet rs=ps.executeQuery();
    if(rs.next()) out.println("Valid user");
    else %>
<%= "Invalid user" %>

</body>
</html>
```

## 9. To insert details of Student using Servlet or jsp (Registration->Rollno,Name,Mobno)

```
<!DOCTYPE html>
<html>
<head>
<title> Registration Form </title>
</head>
<body>
<form name="rf" action="insert.jsp" method="post">
<p><label>RollNo: </label>
    <input type="text" name="rollno" size="20"/>
</p>
<p><label>Name: </label>
    <input type="text" name="uname" size="20"/>
</p>
<p><label>MobileNo: </label>
    <input type="text" name="mobno" size="20"/>
</p>

<p>
    <input type="submit" value="Register">
</p>
</form>

</body>
</html>
```

**JSP**

```
<html>
<body>
    <%@ page import="java.sql.*" %>
    <%
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","1288");
        String rollno=request.getParameter("rollno");
        String username=request.getParameter("uname");
        String mobileno=request.getParameter("mobno");
        String query="insert into student1 values('"+rollno+"','"+username+"','"+mobileno+"')";
        Statement st=con.createStatement();
        int n=st.executeUpdate(query);
        if(n>0){
            out.println("Data Inserted");
        }
        else{
            out.println("Data Not inserted");
        }
    %>
</body>
</html>
```