IT-230 Web Technologies

40 points => 4 marks

Assignment #3

Due Date: 15 Nov 2015

Copied answers will get Zero mark

Question1: (5 points)

Write down Syntax rules for XML declaration.

- The XML declaration is case sensitive and must begin with "<?xml>" where

   "xml" is written in lower-case.

- If document contains XML declaration, then it strictly needs to be the first statement of the XML document.

- The XML declaration strictly needs be the first statement in the XML document.

- An HTTP protocol can override the value of *encoding* that you put in the XML declaration.

Question2: (5 points)

Write any three characters which are reserved by XML along with corresponding character description and replacement entity.

not allowed character	replacement-entity	character description
<	<	less than
>	>	greater than
&	&	ampersand
'	'	apostrophe

Question3: (5 points)

What is RSS? Why and who should use RSS?

What is RSS?	Why should use RSS?	Who should use RSS?
- RSS stands for **R**eally **S**imple **S**yndication - RSS allows you to syndicate your site content - RSS defines an easy way to share and view headlines and content - RSS files can be automatically updated - RSS is written in XML	RSS was designed to show selected data. Without RSS, users will have to check your site daily for new updates. This may be too time-consuming for many users. With an RSS feed (RSS is often called a News feed or RSS feed) they can check your site faster using an RSS aggregator (a site or program that gathers and sorts out RSS feeds). Since RSS data is small and fast-loading, it can easily be used with services like cell phones or PDA's.	RSS is useful for web sites that are updated frequently, like: - News sites - Lists news with title, date and descriptions - Companies - Lists news and new products - Calendars - Lists upcoming events and important days - Site changes - Lists changed pages or new pages

Question 4: (5 points)

What is JSP and why do we need it?

JSP stands for JavaServer Pages. JSP is java server side technology to create dynamic web pages.

We need it is to supports cleaner separation of program logic from presentation. In addition, it Facilitates division of labor between developers and designers.

Question 5: (20 points)

 Design the following webpages using JSP.

Note: you can use HTML to design the form of the first page.

Page1: A form to get information from the user as following:

Enter your information:

Your name: Smith

Year you were born: 1980 ✕

[Send]

```html
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Your Information</title>
</head>


<body>
    <h2>Enter your information:</h2>
    <form action="LoginCheck.jsp" method="post">
        <br /> Your name:<input type="text" name="Yname"> <br /> <br />
        <br /> Year you were born:<input type="text" name="year"> <br />
        <input type="submit" value="Send">
    </form>

</body>
</html>
```

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Check JSP</title>
</head>
<body>
    <%
        String Yname = request.getParameter("Yname");
        String year = request.getParameter("year");

        session.setAttribute("Yname", Yname.toUpperCase());
        session.setAttribute("year", year);

        response.sendRedirect("welcom.jsp");
    %>
</body>
</html>
```

Page 2: Shows the user name in upper case, and his/her age in 2016. The following is a sample:

Welcome, SMITH

Your age is, 36

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Welcome!</title>
</head>
<body>
    <h1>
        <%
            String name=session.getAttribute("Yname").toString();
            out.println("Welcome,  "+name);
        %>
    </h1>
    <h2>
        <%
            String syear =session.getAttribute("year").toString();
            int year=Integer.parseInt(syear);
            out.println("Your age is,  "+(2016-year));
        %>
    </h2>
</body>
</html>
```

Note: JSP in the code is not in XML syntax, students may use XML syntax, so any coding produce the required pages using JSP is acceptable.