Course: B. Tech (CS) CCV/DA	Date of Submission: 22nd Sep. 2023	Session: 2023-24
Subject (Subject Code): Web Technology-I (BCSC0062)		
Assignment No. 1		

1. A server needs to be connected to 5 clients. Demonstrate any three topologies to make such connections through different diagrams. Name each topology and an advantage of each of the topology offered.

2. Enlist any two characteristics of http. Differentiate between http and https.

3. Draw a neat diagram of a Client Server Architecture. Explain each of the components briefly.

4. Create a webpage that displays the name and photograph of the CEOs of the following IT Organizations:

   (a) Microsoft Corporation

   (b) IBM

   (c) Accenture

   (d) Oracle

   (e) Amazon Inc.

5. Create a webpage that displays the following content on browser.

```
<html>
<head>
<title> Assignment 1</title>
</head>
<body>
Content of web page should be displayed.
</body>
</html>
```

6. Create a webpage that displays the mathematical formula for the following:

   a. Area of a circle

   b. Trigonometric Identities with angle alpha(α)

   c. Square of (a+b)

   d. Cube of (a+b)

   e. Difference between squares of two variables

   f. Time Period of a pendulum

   g. Gravitational Force

   h. Kinetic Energy

   i. Relation between mass and Energy

j.   Relation between density(ρ), mass, and Volume

Use tables to display the formulas. Use CSS to display with acceptable look and feel.

7.   Create a webpage that displays a registration page for an organization named ABC INFOTECH. It should ask the user to input the following details for registering the user for recruitment.:

a.   User Name

b.   Password

c.   Confirm Password

d.   Email Id

e.   Contact Number

f.   Gender

g.   Highest Qualification

h.   Languages Known (English, Hindi)

i.   Preferred programming Language (C++, Java, Python)

j.   Two lines to describe yourself

Use tables to display labels and input fields in proper alignment. Use CSS to display with acceptable look and feel. Apply html5 validations as follows:

(a) No field should be left blank

(b) Mobile number should take digits only

(c) Email should be in correct format.

8.   Create a website that contains three webpages namely index.html, page1.html and page2.html. The first page shall display a list of 5 Universities in the form of ordered list having symbols a, b, c, d and e. It should also have a hyperlink NEXT to move to the next page. The next page shall display a list of next 5 Universities in the form of ordered list having symbols f, g, h, i and j. The page shall have two hyperlinks PREVIOUS and NEXT, which does their respective tasks. The last page shall display a list of next 5 Universities in the form of ordered list having symbols k, l, m, n and o. The page shall also contain two hyperlinks to move to the first and the second page respectively.