

## **HTML, CSS and JavaScript**

### **Class and Lab work**

**Date: 05/06/2023**

1. What is HTTP? How does it work? Give appropriate example.
2. Discuss the following with respect to Web design.
  - Effective navigation
  - Browser Compatibility
3. Show the use of the HTML table tag to design the tables with different requirement with example.
4. Write an HTML and JavaScript program which accepts N as input and displays first N Fibonacci numbers as list.
5. What is JavaScript event? List the major events and show use of at least one event by writing JavaScript code.
6. What do you mean by meta tags? Show their meaning and use with example.
7. What is XML? Write an XML file to store your semester mark sheet. Assume that your semester marks of all the subjects are store in XML.
8. Write an XSL file using XSLT to display it in XHTML table form.
9. What is role of Web server? List the popular Web servers with their characteristics.
10. Explain following terms with example.
  - i) <optgroup>   ii) <span>
11. Explain CSS with all types. Explain BOX MODEL.
12. What are differences between client side and server side scripting language? Write down java script code to check mobile number ( mobile number should start with 9 or 8) and mail id(check @ and .).

Give the answer of following question.

- i) Justify it:” HTTP is called as stateless protocol”.
- ii) How can you open a link in a new browser window?
- iii) What’s the correct syntax for referring to an external script called

“abs.js”?

1) <script href=”abc.js”>

2) <script src=”abc.js”>

3) <script target=”abc.js”>

iv) What is difference between Java script and JAVA?

v) Give difference between DTD and XML schema.

vi) Justify it: “Java script is used in validation techniques”.

vii) Which file can be configured for Apache Web Server?

13. Write down java script code to validate user name and password (password length must in between 6 to 12 characters. User name should not start with \_, @, or any number, both are not blank).

14. Write down HTML/CSS code to create table with 5 rows and 3 columns. Even no. of rows display in green color and odd no. of rows display in yellow color.

15. Write a JavaScript to print characters of a string at odd positions.(for example for the string India, I, d and a should get printed).

16. What is the difference between class and id? How can a style rule be defined with an id redheading that gives red color to heading h1 with text of heading right aligned? What would be the output of the following code in relation to style defined in this problem?

```
<h2 id=”redheading”> This is red heading</h2>
```

```
<p id=”redheading”> This is red heading</p>
```

```
<h1 id=”redheading”> This is red heading</h1>
```

17. Explain the use of XSL Elements value-of, for-each, sort with example.

18. Show the use of events to change background color with DHTML. If mouse button is pressed, background color should be red. If mouse button is released up, background color should be yellow.

19. Design an login form using HTML and JavaScript with following validations on password field : minimum length 8 characters, it should have some special character.

20. Why do you need validation? Show the use of regular expression in JavaScript to validate the email address with example.

21. What are JavaScript objects? List the important built-in objects. How can you write your own object?
22. Define CSS. Enlist and explain methods of using CSS in web page. Specify the CSS to provide; link: after visited blue color and before visited red color, table with odd rows white and even rows blue color.
23. Differentiate between server side and client side scripting languages.
24. Write HTML and JavaScript to take input for loginname, password, birthdate, email address, phone no. and validate them.
25. Write a JavaScript that uses function to calculate how many days are left in your birthday?
26. Write a JavaScript, that uses a loop, that searches a word in sentence held in an array, returning the index of the word.
27. What is Metadata? Where it is included in HTML and XHTML? Explain with example how Metadata is included in a document? Also show how can following be achieved with the help of Metadata?
  - (i) Stop the page from being listed.
  - (ii) Set an expiration date
  - (iii) Stop the browser from caching a page.
  - (iv) Give a context for date so that it can take format MM-DD-YYYY and DDMM-YYYY
28. How can a style sheet be linked to a web page or how a cascaded style sheet be embedded within a document? With the help of cascaded style sheet change background color. What changes are to be done to set an image as a background? Manipulate a background image so it can be repeated over an area.
29. Explain the class selector and pseudo selectors of CSS with relevant scripts.
30. Explain the following CSS properties with suitable examples.
  - i) float      ii) position      iii) overflow.
31. How to create a Date object using JavaScript?