2023

Time - 3 hours

Full Marks - 60

*Answer **all groups** as per instructions.*
Figures in the right hand margin indicate marks.

GROUP – A

1. Fill in the blanks. (all)   [1 × 8

    (a) In web communication, HTTP stands for hypertext _____ protocol.

    (b) In HTML, the structure of a document is defined using _____ tags that enclose content.

    (c) CSS is short for cascading style _____.

    (d) CSS allows you to control the _____ of web elements like text and backgrounds.

    (e) JavaScript is a _____ side scripting language.

    (f) In JavaScript, you use _____ to store and manipulate data.

    (g) The abbreviation DOM stands for document object _____.

    (h) PHP is mainly used for server-side _____.

GROUP – B

2. Answer <u>any eight</u> of the following questions within two to three sentences each. [1½ × 8

(a) What does HTTP stand for and what is its primary function in web communication ?

(b) Describe the purpose of HTML in web development.

(c) Explain the role of Cascading Style Sheets (CSS) in web design.

(d) What is the primary purpose of JavaScript in web development ?

(e) Name the various CSS style components.

(f) In PHP, what are variables and what role do they play in scripting ?

(g) How do you add a comment in PHP ?

(h) How does PHP handle arrays and what is their purpose in scripting ?

(i) Briefly explain the concept of server-side scripting in PHP.

(j) What is the significance of combing HTML, CSS and JavaScript in DHTML ?

GROUP – C

3. Answer <u>any eight</u> of the following questions within 75 words each.

    [2 × 8

    (a) What is the primary function of HTML in web development and how does it structure the content of web pages ?

    (b) What tag is used to initialize the document type in HTML ?

    (c) How can you integrate CSS into HTML web page ?

    (d) How does JavaScript enhance the interactivity features of web pages ? Give a suitable example.

    (e) Explain what the Document Object Model (DOM) represents in web development.

    (f) Give the syntax of 'for' loop statement in PHP.

    (g) Define the HTML <head> tag.

    (h) Differentiate between echo and print statement in PHP.

    (i) Differentiate between PHP and JavaScript.

    (j) Give a comparison between server side and client side scripting.

GROUP – D

Answer all questions within 500 words each.

4. Describe the role of HTTP in web communication. Explain how a typical HTTP request response cycle works, including the components involved.

    [6

OR

Define table tag and their attributes with an example.

5. Explain the significance of CSS in web designing. Provide examples of CSS properties and how they can be used to style web elements.

[6

OR

Discuss the concept of DOM in web development. How does the DOM facilitate the dynamic manipulation of web page elements through JavaScript ?

6. What is JavaScript ? Provide examples of JavaScript functions. Differentiate between GET and POST methods. [6

OR

Answer both the questions. [3 × 2

(i) Define Event. How Events are handled in JavaScript ?

(ii) Explain various operators and data types in JavaScript.

7. Describe the purpose of PHP in web development. How does PHP differ from client-side scripting language like JavaScript ? [6

OR

How does PHP handle variables and array and what are their roles in PHP scripting ? Provide examples of variables used in PHP.