Roll No. ....

NBCA/M-24

INTRODUCTION TO WEB TECHNOLOGIES
Paper : B23-CAP/CTS/CAL/CDS-202
(CC-B2)
(B.C.A.)

Time : Three Hours]   [Maximum Marks : 50

Note : Attempt *five* questions in all, selecting *one* question from each unit. Question number 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Discuss the difference between a URL and a URI.

    (b) Discuss the use of comments in HTML. How do you add comments to an HTML document?

    (c) What are the differences between margin and padding in CSS?

    (d) How do you create and manipulate objects in JavaScript?

UNIT-I

2. (a) Explain the concept of a search engine and discuss the key components of a search engine.

    (b) What is a web browser? What are the common functions provided by it? Discuss.

3. (a) What are the best practices for optimizing website performance and speed?

   (b) What is HTTP? Can you explain the difference between HTTP and HTTPS?

UNIT-II

4. (a) Discuss the difference between <table>, <tr>, <td>, and <th> tags in HTML.

   (b) Explain the difference between the GET and POST methods in HTML forms. When would you use each method?

5. (a) Describe the structure of an unordered list in HTML. What elements are used to create list items within an unordered list? Illustrate.

   (b) Explain the difference between block-level and inline HTML elements.

UNIT-III

6. (a) How does the descendant selector work in CSS, and when would you use it?

   (b) What are the different CSS link states? Discuss using examples.

7. (a) Explain the concept of the CSS box-sizing property and how it affects the layout of elements.

(b) What is grouping of CSS selectors, and why is it useful in web development? Discuss.

UNIT-IV

8. (a) Discuss the importance of JavaScript in building dynamic and interactive web applications.

(b) What is the difference between var, let, and const in terms of scope and hoisting?

9. (a) How do you define and call functions in JavaScript? Illustrate.

(b) What are the different types of loops in JavaScript? Discuss.

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