



End Term (Even) Semester Examination May-June 2025

Roll no

Name of the Program and semester: Diploma VI

Name of the Course: Advance Web Technology

Course Code: DTCS-602

Time: 3 hour

Maximum Marks: 100

Note:

- (i) All the questions are compulsory.
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

- Q1. (2X10=20 Marks)
- a) Explain the concept of "Home Page" in a website. How does it differ from a "Web Page"? What role does it play in website navigation? CO2
 - b) Define the World Wide Web (WWW). How does it differ from the Internet? Provide examples of how both are used in day-to-day life. CO1
 - c) Explain the role of the following protocols in network communication:
 - Simple Mail Transfer Protocol (SMTP)
 - Telnet
 - Hypertext Transfer Protocol (HTTP) CO1

- Q2. (2X10=20 Marks)
- a) Explain the structure of an HTML document. Discuss the role of essential tags such as <html>, <head>, <body>, and their attributes. CO2
 - b) Create a simple HTML page containing text, images, a table, and a hyperlink. Discuss the usage of <div>, , and <table> tags with examples. CO3
 - c) What is the difference between HTML 4 and HTML 5? Discuss the new features introduced in HTML 5. CO1

- Q3. (2X10=20 Marks)
- a) What are objects and methods in JavaScript? Provide examples of creating and manipulating objects in JavaScript. CO2
 - b) Explain the concept of DHTML. How does JavaScript help in creating dynamic HTML pages? Provide an example where JavaScript is used to change text content dynamically. CO3
 - c) What are the different data types in JavaScript? How does type casting work in JavaScript? Provide examples. CO4

- Q4. (2X10=20 Marks)
- a) Explain the structure and components of an XML document. Discuss the role of DTD and Schemas in XML with examples. CO2
 - b) Create a simple XML document and a JSON object to represent a student's information (name, roll number, and course). Discuss the advantages of JSON over XML. CO2
 - c) What are DTD and XML Schema? How do they help in defining the structure of XML documents? Provide an example of each. CO4

- Q5. (2X10=20 Marks)
- a) What are variables and data types in PHP? Explain how to define variables and use type casting in



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PHP.CO2

- b) Explain the concept of "Cookies" in PHP. How are they set, retrieved, and deleted in PHP? Provide an example of a PHP script that sets a cookie and displays its value.CO3
- c) Discuss arrays in PHP. Provide examples of indexed arrays, associative arrays, and multidimensional arrays.CO2