

Bihar Engineering University, Patna
B.Tech 2nd Semester Examination, 2025

Course: B.Tech
Code: 100219

Subject: Introduction to Web Design

Time: 03 Hours
Full Marks: 70

Instructions:-

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

Q.1 Choose the correct option / answer the following (Any seven question only):

[2 x 7 = 14]

- (a) Which protocol is used for transferring web pages?
(i) FTP (ii) HTTP
(ii) SMTP (iv) SNMP
- (b) HTML stands for
(i) Hyper Text Making Language (iii) Hyper Text Markup Language
(ii) High Text Markup Language (iv) Hyperlinking Text Management Language
- (c) Which tag is used for creating hyperlinks?
(i) <link> (iii) <href>
(ii) <a> (iv) <hyper>
- (d) Which tag is used to create a form?
(i) <form> (iii) <textarea>
(ii) <input> (iv) <fieldset>
- (e) Which attribute is used to send form data to a server?
(i) name (iii) action
(ii) Value (iv) Id
- (f) Inline CSS is applied using
(i) <style> tag in head (iii) External stylesheet
(ii) style attribute in HTML tag (iv) None
- (g) JavaScript runs on
(i) Server (iii) Database
(ii) Client(browser) (iv) Compiler
- (h) To repeat code a fixed number of times, we use
(i) If (iii) for loop
(ii) switch (iv) Break
- (i) The default value of uninitialized variables in Java Script is
(i) 0 (iii) undefined
(ii) NULL (iv) False
- (j) On click is an example of
(i) Style property (iii) Event handler
(ii) JavaScript Method (iv) None

- Q.2**
- (a) Define the Internet and the World Wide Web (WWW). Explain the fundamental difference between these two terms using a simple analogy. [7]
 - (b) What is a Website and a Homepage? Describe the role of a homepage in a typical website and give an example of the information it commonly contains? [7]

- Q.3 (a) Explain the difference between Web Browser and Web Server? [7]
 (b) What is a URL? Write a sample URL and label its three main parts (Protocol, Domain Name, and Path)? [7]

- Q.4 (a) What is an HTML Element? Describe the structure of an HTML element with suitable examples. [7]
 (b) Create an HTML webpage to display the following table showing Name, Age, and Country of three persons. [7]

Name	Age	Country
Harry Depp	28	Britain
John Smith	35	USA
Ram Krishna	19	Nepal

- Q.5 (a) Design an HTML webpage to show your semester subjects. Use a Nested List, where the main list contains semester numbers (Semester 1, Semester 2) and each semester contains the subjects offered in that semester. [7]
 (b) Write the difference between HTML and XHTML? [7]
- Q.6 (a) Write a short note on:
 (i) Inline CSS
 (ii) Internal CSS [7]
 (b) Explain the use of <div> and tags in CSS styling. [7]
- Q.7 (a) Write an HTML program using CSS to demonstrate various text and font properties such as font-family, font-size, font-style, font-weight, text-align, text-decoration, text-transform, and line-height. [7]
 (b) Why do we need JavaScript in Web Development? [7]
- Q.8 (a) Discuss arithmetic and logical Operators in JavaScript with program? [7]
 (b) Write a JavaScript program to calculate the sum of the first 10 natural numbers using any looping structure. [7]
- Q.9 (a) What is Event Handling in JavaScript? Explain with a program? [7]
 (b) Discuss Form Validation in JavaScript with example program? [7]