

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VII - THEORY EXAMINATION (2025 - 2026)

Subject: Web Technologies

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.

2. Maximum marks for each question are indicated on right -hand side of each question.

3. Illustrate your answers with neat sketches wherever necessary.

4. Assume suitable data if necessary.

5. Preferably, write the answers in sequential order.

6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

20

1. Attempt all parts:-

- 1-a. An organisation responsible for providing Internet services to customer is known as. (CO1, K1) 1
- (a) Government
- (b) ISP
- (c) Mobile Provider
- (d) Sim Provider
- 1-b. A _____ is a temporary connection that uses the Public Switched Telephone Network (PSTN) to connect to the Internet. (CO1,K1) 1
- (a) Broadband connection
- (b) Wireless Connection
- (c) dial-up connection
- (d) wired connection
- 1-c. The correct sequence of HTML tags for starting a webpage is - (CO2,K1) 1
- (a) Head, Title, HTML, body
- (b) HTML, Body, Title, Head
- (c) HTML, Head, Body, Title
- (d) HTML, Head, Title, Body
- 1-d. How to create an unordered list (a list with the list items in bullets) in HTML? (CO2,K2) 1
- (a) ul
- (b) ol
- (c) li

- (d) i
- 1-e. In CSS, how do you select all the elements with the class "example"? (CO3,K2) 1
- (a) .example
 - (b) #example
 - (c) element.example
 - (d) class.example
- 1-f. In the Box Model, what does the margin of an element represent? (CO3, K2) 1
- (a) The space between the content and the border
 - (b) The space between the border and the padding
 - (c) The space between the border and the margin of the parent element
 - (d) The space between the content and the margin
- 1-g. Which of the following is NOT a valid data type in JavaScript?(CO4,K3) 1
- (a) Number
 - (b) String
 - (c) Boolean
 - (d) Character
- 1-h. In JavaScript, objects are collections of: (CO4, K1) 1
- (a) Arrays
 - (b) Functions
 - (c) Key-value pairs
 - (d) Numbers
- 1-i. What is web hosting? (CO5,K3) 1
- (a) Web development tool
 - (b) Internet browser
 - (c) Service that allows individuals and organizations to make their websites accessible via the World Wide Web
 - (d) Search engine optimization technique
- 1-j. In web hosting, what does the term "scalability" mean? (CO5, K2) 1
- (a) The ability to handle increased traffic and growth
 - (b) The speed at which a website loads
 - (c) The number of web pages on a site
 - (d) The level of security provided by the hosting provider

2. Attempt all parts:-

- 2.a. Write the functions of a Web Server. (CO1, K2) 2
- 2.b. What is DOCTYPE element? (CO2,K1) 2
- 2.c. Explain the advantages of using CSS? (CO3, K2) 2
- 2.d. Define Client side scripting.(CO4,K2) 2
- 2.e. Define FTP (File Transfer Protocol). (CO5, K1) 2

SECTION-B

30

3.a. Answer any one of the following:-

3.a.(i)	List and explain basic principles of good website design. (CO1, K2)	6
3.a.(ii)	Explain the concept of client-server computing and its role in internet-based applications. (CO1, K2)	6
3.b.	Answer any one of the following:-	
3.b.(i)	Write the steps to create an HTML document.(CO2,K1)	6
3.b.(ii)	Design a complete HTML form that collects the following user information: 1. Full Name (text input) 2. Email Address (email input) 3. Age (number input) 4. Gender (radio buttons) 5. Hobbies (checkboxes) 6. Submit Button (CO2, K6)	6
3.c.	Answer any one of the following:-	
3.c.(i)	Analyze the structure and syntax of CSS rules with reference to selectors, properties, and values. (CO3, K4)	6
3.c.(ii)	Analyze the CSS box model and identify the role of each property involved in determining element size and spacing. (CO3, K4)	6
3.d.	Answer any one of the following:-	
3.d.(i)	Explain the difference between JavaScript and Java.(CO4,K3)	6
3.d.(ii)	Create the registration form for the creation of email account with all possible validations using JavaScript. (CO4, K5)	6
3.e.	Answer any one of the following:-	
3.e.(i)	How to register a domain name? List the best domain registrar. (CO5,K3)	6
3.e.(ii)	Compare and evaluate shared hosting, VPS hosting, and dedicated hosting, and justify suitable scenarios where each hosting package is most appropriate. (CO5, K5)	6
<u>SECTION-C</u>		50
4.	Answer any <u>one</u> of the following:-	
4-a.	Describe in brief the steps used for planning a website.(CO1,K1)	10
4-b.	Apply your understanding of web architecture to illustrate the HTTP request–response cycle and demonstrate how clients and browsers process web communication. (CO1, K3)	10
5.	Answer any <u>one</u> of the following:-	
5-a.	Explain the concept of an HTML document and outline its basic structural components with an example. (CO2, K2)	10
5-b.	Explain HTML sectioning elements and illustrate how they structure the logical layout of a webpage. (CO2, K2)	10
6.	Answer any <u>one</u> of the following:-	
6-a.	Explain the CSS Box Model in detail. Discuss Border, Padding, and Margin properties with examples. (CO3, K2)	10
6-b.	Classify and explain the different font-related properties available in CSS and their role in text styling. (CO3, K4)	10

7. Answer any one of the following:-

- 7-a. Define Javascript Operators.What are the different types of operators in JS? Explain. (CO4,K3) 10
- 7-b. Describe the various conditional statements.(CO4,K2) 10

8. Answer any one of the following:-

- 8-a. Explain the fundamental concepts of web hosting.(CO5,K2) 10
- 8-b. Explain and compare dedicated hosting and cloud hosting. Evaluate suitable scenarios where each hosting type is most appropriate. (CO5, K5) 10

REG_JULY_DEC_2025