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

**M.Tech Integrated**

**SEM: V - THEORY EXAMINATION (2025 - 2026)**

**Subject: Web Technology**

**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. Choose the correct format of of a URL. (CO1), (K1)

1

- (a) WWW.Google
- (b) www.org.google.com
- (c) www.google.com
- (d) www.google.co.com

1-b. Discuss CMS in web design (CO1),(K3)

1

- (a) Content Management System
- (b) Creative Management System
- (c) Content Mixing System
- (d) Creative Managerial System

1-c. The tag which allows you to nest other HTML tags within the description (CO2), (K4)

1

- (a) <CAPTION>
- (b) <TD>
- (c) <TR>
- (d) None of the above

1-d. The following is used to read an HTML page and render it? (CO2),(K1)

1

- (a) Web server
- (b) Web network
- (c) Web browser
- (d) Web matrix

- 1-e. The correct Syntax for importing a stylesheet in CSS? (CO3,K1) 1
- (a) @import url(css/example.css);
  - (b) @import-stylesheet url(css/example.css);
  - (c) import-css url(css/example.css);
  - (d) @import-style url(css/example.css);
- 1-f. The following CSS framework is used to create a responsive design CO3, K1 1
- (a) django
  - (b) rails
  - (c) larawell
  - (d) bootstrap
- 1-g. Mention main difference between var and let keywords in JavaScript? (CO4),(K2) 1
- (a) var defines a variable while let defines a constant
  - (b) var defined function scoped variable while let define block scoped variable
  - (c) The value of a variable declared with var can be changed while the value of a variable declared with let cannot be changed
  - (d) None of the above
- 1-h. Do functions in JavaScript necessarily return a value? (CO4),(K1) 1
- (a) mandatory
  - (b) not necessary
  - (c) Few functions return values by default
  - (d) some functions do not return any value
- 1-i. As compared to associative arrays vector arrays are much (CO5),(K2) 1
- (a) Faster
  - (b) Slower
  - (c) Stable
  - (d) None of the above
- 1-j. Objects are defined as instances of user defined classes that can hold \_\_\_\_\_? (CO5),(K1) 1
- (a) 1.values
  - (b) 2. functions
  - (c) 3. both values and functions
  - (d) 4. None of the above
2. Attempt all parts:-
- 2.a. Discuss two primary types of websites. (CO1),(K2) 2
- 2.b. Discuss marquee? (CO2),(K2) 2
- 2.c. Give an example of a basic grid structure in Bootstrap. (CO3),(K3) 2
- 2.d. Describe different types of Popup box available in JavaScript? (CO4), (K2) 2
- 2.e. Elaborate the differences between PHP constants and variables? (CO5),(K4) 2

## **SECTION-B**

30

3. Attempt all parts:-

3.a. Answer any <u>one</u> of the following:-	
3.a.(i) Explain Search Engines and their need in WWW. CO1, K3	6
3.a.(ii) Discuss how web protocols play a crucial role in web technology? (CO1) (K4)	6
3.b. Answer any one of the following:-	
3.b.(i) On which condition tags migrated from HTML4 to HTML5? Explain CO2, K2	6
3.b.(ii) Design a login page of any website using form? (CO2),(K6)	6
3.c. Answer any one of the following:-	
3.c.(i) Create a simple HTML page with title heading paragraph emphasise strong and image elements. (CO3),(K6)	6
3.c.(ii) Create Navigation bar with the help of CSS. (CO3), (K6)	6
3.d. Answer any one of the following:-	
3.d.(i) Illustrate the keywords which are used to handle exceptions? (CO4),(K3)	6
3.d.(ii) Using JavaScript, validate an input-field that contains an e-mail address.(CO4,K3)	6
3.e. Answer any one of the following:-	
3.e.(i) Discuss the steps for file uploading and downloading in php?CO5, K2	6
3.e.(ii) Explain about PHP Default Argument Values Function? (CO5), (K2)	6
<b><u>SECTION-C</u></b>	<b>50</b>
4. Answer any <u>one</u> of the following:-	
4-a. Explain web hosting ? Discuss about various web hosting packages available. (CO1), (K2)	10
4-b. Differentiate between front end & back-end languages. Write five examples for each. (CO1), (K4)	10
5. Answer any <u>one</u> of the following:-	
5-a. Can we do session handling in html page with the help of java script? IF yes than how or if not then why?(CO2,K3)	10
5-b. Design registration form and login form that are linked to each other, If account exists than login, otherwise register or signup for login in registration form. (CO2),(K6)	10
6. Answer any <u>one</u> of the following:-	
6-a. Create a web page which displays the syllabus of any subject as a bulleted list. Titles are displayed as contents of the main list and the topics of individual units are displayed as sub lists in the main list. (Hint: Use nested lists). Instead of bullets for unordered list, display arrows using CSS. (CO3), (K3)	10
6-b. Suppose you have an element and an IFRAME element, and you want an element's _HREF value to load within the IFRAME element. How can you make that happen? In your answer, you must mention the attributes in the and IFRAME elements that are used to tie the two elements together. (CO3), (K3)	10
7. Answer any <u>one</u> of the following:-	
7-a. Create a JavaScript code block, which validate a username and password against hard coded values.(CO4,K3)	10
7-b. Build a JavaScript program to convert temperature from Celsius to Fahrenheit and	10

vice-versa. CO4, K3

8. Answer any one of the following:-

- 8-a. Describe conditional operators in detail? When these operators used in the PHP? (CO5), (K2) 10
- 8-b. Differentiate between Get and post methods in form submitting? Also List the statements that are used to connect PHP with MySQL with an example. (CO5), (K2) 10

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