

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

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: V - THEORY EXAMINATION (2024- 2025)

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. A web page which shows fixed content always [CO1,K1]

1

(a) Static

(b) Dynamic

(c) Standalone

(d) Fixed Page

1-b. A web server is a [CO1,K1]

1

(a) High end machine serving clients

(b) Set of web clients

(c) Web Protocol

(d) Web Communication standard

1-c. HTML attribute used to specify the URL for a hyperlink is ____ [CO2,K1]

1

(a) For Loop href

(b) src

(c) link

(d) url

1-d. Correct syntax rule in XML is__ [CO2,K2]

1

(a) All XML elements must have a closing tag.

(b) XML tags are case-insensitive

(c) XML allows overlapping tags.

- (d) XML documents can have multiple root elements
- 1-e. The valid values of "text-decoration" property? [CO3,K2] 1
- (a) overline, strike, line-through, underline, and none
 - (b) overline, line-through, underline, and none
 - (c) double-line, overline, line-through, underline, and none
 - (d) None of these
- 1-f. The Bootstrap grid system is based on how many columns? [CO3,K1] 1
- (a) 4
 - (b) 6
 - (c) 12
 - (d) 8
- 1-g. Which of the following is not a valid JavaScript data type? [CO4,K2] 1
- (a) String
 - (b) Boolean
 - (c) Integer
 - (d) Undefined
- 1-h. What will be the output of the following code snippet?
print(typeof(NaN)); [CO4,K1] 1
- (a) Object
 - (b) String
 - (c) Number
 - (d) Undefined
- 1-i. Function used to define a constant in PHP is ____ [CO5,K1] 1
- (a) constant()
 - (b) define()
 - (c) set_constant()
 - (d) const()
- 1-j. The result of the expression $10 + 2 * 5$ in PHP is ____ [CO5,K2] 1
- (a) 60
 - (b) 70
 - (c) 20
 - (d) 10

2. Attempt all parts:-

- 2.a. Discuss the term hypertext with examples. [CO1,K1] 2
- 2.b. Illustrate the types of lists in HTML. [CO2,K2] 2
- 2.c. Define Bootstrap Container, and how does it work?[CO3,K4] 2
- 2.d. Compare == and === in JavaScript? [CO4,K2] 2

2.e.	Design a PHP program to print reverse of any number. [CO5,K5]	2
SECTION-B		30
3.	Answer any <u>five</u> of the following:-	
3-a.	Differentiate between Web server & Application server.[CO1,K3]	6
3-b.	Elaborate the planning phase characteristics of a web development project. [CO1,K2]	6
3-c.	Create HTML form for Registration of a student in college? [CO2,K5]	6
3-d.	Explain about various types of XML Parser. [CO2,K2]	6
3.e.	Differentiate between Inline, Internal and External CSS.[CO3, K4]	6
3.f.	Write a Javascript to design a form to accept values for user ID & password. [CO4,K5]	6
3.g.	Design a PHP script for uploading a file to the server and display the uploaded files details. [CO5, K5]	6
SECTION-C		50
4.	Answer any <u>one</u> of the following:-	
4-a.	Illustrate the Client-Server Model with a detailed diagram and elaborate on how communication occurs between clients and servers. [CO1,K5]	10
4-b.	Write a detailed note on responsive design of websites with suitable examples. [CO1,K2]	10
5.	Answer any <u>one</u> of the following:-	
5-a.	Define Frameset, Frame Tag. Divide the web page into four equal parts each individual part displays different web page [CO2,K5]	10
5-b.	Define DTD . Also explain the different types of DTD with suitable example. [CO2,K5]	10
6.	Answer any <u>one</u> of the following:-	
6-a.	Provide three CSS rules that implement links as follows. All links should have no underlining. Unvisited links should be dark green. Visited links should be pink. [CO3,K2]	10
6-b.	Define Bootstrap and explain the features of Bootstrap? [CO3,K2]	10
7.	Answer any <u>one</u> of the following:-	
7-a.	Build a JavaScript program to convert temperature from Celsius to Fahrenheit and vice versa. [CO4,K5]	10
7-b.	Explain various operators and data types available in java script with examples.[CO4,K2]	10
8.	Answer any <u>one</u> of the following:-	
8-a.	Explain in detail about session control in PHP? [CO5,K2]	10
8-b.	Define an Array? Explain about the types of Arrays in PHP with an example. [CO5, K2]	10