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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**

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1. Attempt all parts:-

- 1-a. A Server Package using to test web applications is [CO1,K1] 1
- (a) Cpanel
- (b) Localhost
- (c) XAMPP
- (d) Apache
- 1-b. Protocol is used for connecting clients with server [CO1,K1] 1
- (a) FTP
- (b) WWW
- (c) IP
- (d) HTTP
- 1-c. HTML input type used to create a slider for selecting a range of values is \_\_\_\_ [CO2,K1] 1
- (a) type="range"
- (b) type="slider"
- (c) type="range-input"
- (d) type="value"
- 1-d. In XML , DTD stand for \_\_\_\_ [CO2,K1] 1
- (a) Document Type Definition
- (b) Data Type Declaration

- (c) Document Transfer Description
- (d) Data Transfer Definition
- 1-e. How many types of layouts are there in Bootstrap? [CO3,K2] 1
- (a) 1
- (b) 4
- (c) 3
- (d) 5
- 1-f. Which CSS property is used to change the text color of an element? [CO3,K2] 1
- (a) color
- (b) font-color
- (c) background-color
- (d) text-color
- 1-g. Which one of the following symbol is used for creating comments in the Javascript: [CO4,K2] 1
- (a) \\
- (b) //
- (c) \\* \*\
- (d) \\* \*/
- 1-h. In JavaScript the  $x===y$  statement implies that: [CO4,K1] 1
- (a) Both x and y are equal in value, type and reference address as well.
- (b) Both x and y are equal in value only.
- (c) Both are equal in the value and data type.
- (d) Both are not same at all.
- 1-i. In PHP, what is the correct way to declare a variable named "username"? [CO5,K2] 1
- (a) `username = "John";`
- (b) `$username = "John";`
- (c) `var username = "John";`
- (d) `#username = "John";`
- 1-j. The purpose of the global keyword in PHP when used inside a function is \_\_\_\_\_ [CO5,K2] 1
- (a) To make a function accessible globally
- (b) To declare variables that are accessible inside the function from the global scope
- (c) To declare a global function
- (d) To exit a function and return a value

2. Attempt all parts:-

- 2.a. Discuss basic elements of a good website design. [CO1,K1] 2
- 2.b. Illustrate the differences between html and xml? [CO2,K3] 2

- 2.c. Explain the advantages of using CSS? [CO3,K2] 2
- 2.d. Difference between var, let and const keywords in JavaScript. [CO4,K3] 2
- 2.e. Define PHP Function. [CO5,K1] 2

### **SECTION-B**

30

3. Answer any five of the following:-

- 3-a. Discuss the main stages involved in website development? [CO1, K3] 6
- 3-b. Elaborate the planning phase characteristics of a web development project. [CO1,K3] 6
- 3-c. Explain various features of DTD with the help of examples.[CO2,K2] 6
- 3-d. Create HTML form for Registration of a student in college? [CO2,K5] 6
- 3.e. Explain the different types of Selectors in CSS? [CO3,K3] 6
- 3.f. Write a Javascript to design a form to accept values for user ID & password. [CO4,K5] 6
- 3.g. Explain variables and operators with example in PHP. [CO5,K2] 6

### **SECTION-C**

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4. Answer any one of the following:-

- 4-a. Define web testing and explain the different types of web testing with their importance in website development. [CO1,K5] 10
- 4-b. Illustrate the Client-Server Model with a detailed diagram and elaborate on how communication occurs between clients and servers. [CO1,K5] 10

5. Answer any one of the following:-

- 5-a. Create a HTML document that defines a table with columns for state name, state capital and state population. There must be five rows for states in the table. [CO2,K5] 10
- 5-b. Designing XML document that store various book data such as: book category, title, author, year and price. [CO2,K5] 10

6. Answer any one of the following:-

- 6-a. Explain the Inline, Internal and External CSS with suitable example. [CO3,K2] 10
- 6-b. Define Bootstrap and explain the features of Bootstrap? [CO3,K2] 10

7. Answer any one of the following:-

- 7-a. Write a simple calculator program using switch case in JavaScript. [CO4,K5] 10
- 7-b. Write a JavaScript for loop that will iterate from 1 to 15. For each iteration, it will check if the current number is odd or even and display a message to the screen. [CO4,K5] 10

8. Answer any one of the following:-

- 8-a. Define an Array? Explain about the types of Arrays in PHP with an example. [CO5,K2] 10
- 8-b. Define session and cookies in PHP. Explain with an example program. [CO5,K2] 10