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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VII - THEORY EXAMINATION (2024 - 2025)

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. How does Internet help us? (CO1,K1)

1

- (a) Chat with friends and family
- (b) Upload video, photos and other media
- (c) Search for info on the net
- (d) All of above

1-b. Images are compressed while transferring over the net. It helps to (CO1, K1)

1

- (a) make transmission faster
- (b) Make them secure
- (c) Improve quality
- (d) follow protocol

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. What property is used to change the background color of an element in CSS? (CO3,K2) 1
- (a) color
- (b) background-color
- (c) bg-color
- (d) fill-color
- 1-g. How do you declare a variable in JavaScript?(CO4,K3) 1
- (a) var variableName;
- (b) let variableName;
- (c) const variableName;
- (d) All of the above
- 1-h. Which function is used to print content to the console in JavaScript? (CO4,K3) 1
- (a) print()
- (b) log()
- (c) console.log()
- (d) write()
- 1-i. What is the purpose of a domain name in web hosting?(CO5,K3) 1
- (a) To create databases
- (b) To design website layouts
- (c) To identify the IP address of a server
- (d) To enhance website security
- 1-j. What does bandwidth refer to in the context of web hosting? (CO5,K3) 1
- (a) Storage space for website files
- (b) The amount of data transferred between the server and visitors
- (c) Number of web pages on a site
- (d) Server processing speed

2. Attempt all parts:-

- 2.a. Explain the role of Server.(CO1,K1) 2
- 2.b. What is DOCTYPE element? (CO2,K1) 2
- 2.c. What are the ways to insert CSS? (CO2,K2) 2
- 2.d. Write down the advantages of JavaScript. (CO4,K2) 2

2.e.	What are different web hosting platforms? (CO5,K3)	2
SECTION-B		30
3. Answer any <u>five</u> of the following:-		
3-a.	Give a brief detail of WWW. Write the emergence of web also.(CO1,K1)	6
3-b.	Explain the web browser in detail with example. (CO1,K1)	6
3-c.	Describe about HTML tags. (CO2,K2)	6
3-d.	Write a HTML code to develop a web page having two frames that divide the page into two equal rows and divides the first row into equal columns.(CO2,K1)	6
3.e.	Discuss about background of a web page. (CO3,K3)	6
3.f.	Explain the concept of operators in JavaScript. Provide examples of arithmetic, comparison, and logical operators.(CO4,K3)	6
3.g.	How to register a domain name? List the best domain registrar. (CO5,K3)	6
SECTION-C		50
4. Answer any <u>one</u> of the following:-		
4-a.	Describe the planning process for web designing.(CO1,K1)	10
4-b.	Discuss about web standards and W3C recommendations.(CO1,K2)	10
5. Answer any <u>one</u> of the following:-		
5-a.	Discuss header with its importance.(CO2,K1)	10
5-b.	Discuss the following: a) HR elements b)image Elements c)BR Elements(CO2,K2)	10
6. Answer any <u>one</u> of the following:-		
6-a.	What is a selector? Explain different types of selector.(CO3,K2)	10
6-b.	Describe the different properties to set the background of a web page.(CO3,K2)	10
7. Answer any <u>one</u> of the following:-		
7-a.	Define Javascript Operators.What are the different types of operators in JS? Explain. (CO4,K3)	10
7-b.	Explain the four type of loops in JavaScript. (CO4,K2)	10
8. Answer any <u>one</u> of the following:-		
8-a.	Compare and contrast shared hosting and dedicated hosting, highlighting their advantages and disadvantages.(CO5,K3)	10
8-b.	Explain the key components of a web hosting service.(CO5,K3)	10