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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. TCP stands for? (CO1, K1)

1

- (a) Transmission control program
- (b) Transmission control protocol
- (c) Transfer control program
- (d) Transfer control protocol

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. Which of the following element is responsible for making the text bold in HTML? (CO2,K1)

1

- (a) pre
- (b) a
- (c) b
- (d) br

1-d. Which of the following tag is used to insert a line-break in HTML?(CO2,K1)

1

- (a) br
- (b) a

- (c) pre  
(d) b
- 1-e. Which HTML tag is used to link an external CSS file to an HTML document? 1  
(CO3,K2)
- (a) style  
(b) link  
(c) css  
(d) script
- 1-f. What property is used to change the background color of an element in CSS? 1  
(CO3,K2)
- (a) color  
(b) background-color  
(c) bg-color  
(d) fill-color
- 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. 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-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. 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
2. Attempt all parts:-
- 2.a. Define website.(CO1,K1) 2
- 2.b. Define markup tags.(CO2,K1) 2

- |      |                                       |   |
|------|---------------------------------------|---|
| 2.c. | Define CSS.(CO3,K2)                   | 2 |
| 2.d. | Define Client side scripting.(CO4,K2) | 2 |
| 2.e. | Define Web hosting.(CO5,K3)           | 2 |

**SECTION-B**

30

3. Answer any five of the following:-

- |      |  |   |
|------|--|---|
| 3-a. | Define web page. Explain Internet service provider.(CO1,K1)  | 6 |
| 3-b. | Explain the web browser in detail with example. (CO1,K1)   | 6 |
| 3-c. | Write the steps to create an HTML document.(CO2,K1)  | 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. | Describe CSS with its advantages.(CO3,K3)  | 6 |
| 3.f. | Explain the difference between JavaScript and Java.(CO4,K3)  | 6 |
| 3.g. | Define domain name. why it is important? What are the different type of domains? (CO5,K3)  | 6 |

**SECTION-C**

50

4. Answer any one of the following:-

- |      |  |    |
|------|--|----|
| 4-a. | Discuss the basic principles involved in developing a website.(CO1,K1) | 10 |
| 4-b. | Describe in brief the steps used for planning a website.(CO1,K1)       | 10 |

5. Answer any one 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 one of the following:-

- |      |   |    |
|------|---|----|
| 6-a. | Discuss the three ways to insert CSS.(CO3,K1) | 10 |
| 6-b. | Explain the properties of CSS.(CO3,K2)        | 10 |

7. Answer any one of the following:-

- |      |  |    |
|------|--|----|
| 7-a. | Write down the features of java script.Mention the advantages of java/java script.(CO4,K2) | 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. | Compare and contrast shared hosting and dedicated hosting, highlighting their advantages and disadvantages.(CO5,K3) | 10 |