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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 (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.   Choose the correct meaning for BOM(CO1,K1)   1

    (a)   Browser Object Method
    (b)   Browser Object Model
    (c)   Browser Oriented Model
    (d)   Browser Oriented Method

1-b.   Considering Client-Server Model , A Client recieves request from server(CO1,K1)   1

    (a)   TRUE
    (b)   FALSE

1-c.   Adding a border to your image helps the visitor to recognize it as what?(CO2,K1)   1

    (a)   A frame
    (b)   A link
    (c)   A picture
    (d)   None of the above

1-d.   When to use a DOM Parser?(CO2,K1)   1

    (a)   You need to know a lot about the structure of a document.
    (b)   You need to move parts of the document around.
    (c)   You need to use the information in the document more than once.
    (d)   All of the above.

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.   Suppose the designer has to rotate objects using CSS3 by 30 degrees, which syntax he will choose from below?: (CO3,K1)   1

(a)   object-rotation: 30deg;

(b)   rotate-object: 30deg;

(c)   transform: rotate(30deg);

(d)   transform: rotate-30deg-clockwise;

1-g.   Name the JavaScript keyword which is used to declare a variable? (CO4,K1)   1

(a)   Variable

(b)   var

(c)   let

(d)   none of the above

1-h.   Which is the correct JavaScript statement to display "Hello Boss!" into an alert box?   1

(a)   All of below

(b)   alert('Hello Boss!');

(c)   alert(Text:'Hello Boss!');

(d)   alert("Hello Boss!");

1-i.   Keys in array can be non-sequential.(CO5,K1)   1

(a)   TRUE

(b)   FALSE

(c)   Depend on program

(d)   Keys does not exist in array

1-j.   Which in-built function will add a value to the end of an array?(CO5,K1)   1

(a)   array_unshift()

(b)   into_array()

(c)   inend_array()

(d)   array_push()

2. Attempt all parts:-

2.a.   Explain the various types of websites.(CO1,K2)   2

2.b.   Briefly describe DTD in XML?(CO2,K2)   2

2.c.   Discuss the different types of positioning techniques in CSS? (CO3, K2)   2

2.d.   Demonstrate the use of && and in JavaScript?(CO4,K3)   2

2.e.   Name some of the constants in PHP and their purpose.(CO5, K1)   2

SECTION-B   30

3. Answer any <u>five</u> of the following:-

3-a.   Draw and explain Client-Server architechture. What is Transparency.(CO1,K4)   6

3-b.   Elaborate the planning phase charecteristics of a web development project. (CO1,   6
          K2)

3-c.   Explain with an examples? i) Marquee Tag ii) Image Tag iii) TextArea Tag iv)   6
          Submit and Reset(CO2,K2)

3-d.   Explain how you create various types of frame in HTML?(CO2,K2)   6

3.e.   Write a CSS style specification rule that would make all unordered lists (tags)   6
          have square bullets and a purple background. (CO3,K2)

3.f.   Using JavaScript, validate an input-field that contains an e-mail address.(CO4,K3)   6

3.g.   Write the procedure of Creating and deleting of Folder?.(CO5,K2)   6

SECTION-C   50
4. Answer any <u>one</u> of the following:-

4-a.   Elaborate the role of a Web Application Firewall (WAF) in enhancing web   10
           security?.(CO1,K2)

4-b.   Consider a URL as example, Discuss its all components with (i) Scheme (ii) Host   10
          (iii) Domain (iv) path (CO1, K2)

5. Answer any <u>one</u> of the following:-

5-a.   Design a DOM for library management system with proper diagram.(CO2,K2)   10

5-b.   Using a frame set, create a HTML document and host it as a web page on any   10
          server.(CO2,K3)

6. Answer any <u>one</u> of the following:-

6-a.   Use bootstrap to create an equal width column grid on all devices and screen   10
          widths.(CO3,K3)

6-b.   Create a web page containing two images, where one image overlaps another   10
          image by using the z-index CSS property.(CO3,K3)

7. Answer any <u>one</u> of the following:-

7-a.   Explain javascript validation. Construct a web page using javascript validation for   10
          a student form capturing the data for placement office. (CO4,K3)

7-b.   Explain OOPS Concept in JavaScript?(CO4,K2)   10

8. Answer any <u>one</u> of the following:-

8-a.   Write about the differences between Javascript and PHP?(CO5,K4)   10

8-b.   Write a program using do while loop in PHP?(CO5,K3)   10