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(d) Explain following CSS background properties with an example:-
    i.   background-repeat
    ii.   background-position
    iii. background-color

(e) Define Style sheet. What is the purpose of following CSS Text style properties in HTML5?
    i.   text-align
    ii.   text-transform
    iii. text-decoration
    iv. color

(f) Give the complete form code for following in HTML5:-

HTML Login Page

Username

Password:

Reset   Login

Q. 3 Attempt the following (Any THREE) (Each of 5Marks)   (15M)

(a) What is the use of Math object in JavaScript? Explain its four methods with example.

(b) Explain with an example the purpose of following popup boxes:-
    i.   alert
    ii.   confirm
    iii. prompt

(c) Define DTD and its use. How to create Internal DTD in XML? Give example.

(d) What is XML? Discuss its any four features.

(e) Describe Document Object Model with diagram.

(f) Write a JavaScript code to input a number from user into variable n, display table of factorials up to n.

Q. 4 Attempt the following (Any THREE) (Each of 5Marks)   (15M)

(a) What is XMLHttpRequest object? Explain the following properties of XMLHttpRequest object:-
    i.   onreadystatechange
    ii.   readyState
    iii. responseText
    iv. status

(b) What is a PHP session? How to start, get, modify and destroy a PHP session? Give example.

(c) Define jQuery. Give its any three features and basic syntax with an example.

(d) How does AJAX handle asynchronous data transfer?

(e) Which are the methods for creating animation effects in jQuery? Explain any two methods with example.

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(2½ Hours) [Total Marks: 75]

N.B.   1) All questions are compulsory.
2) Figures to the right indicate marks.
3) Illustrations, in-depth answers and diagrams will be appreciated.
4) Mixing of sub-questions is not allowed.

Q. 1   Attempt All(Each of 5Marks)   (15M)
(a)   Multiple Choice Questions   (5M)
i.   HTML web pages can be read and rendered by :-
A. Server   B. Web browser   C. Interpreter   D. Client
ii.   If the image cannot be displayed then _____ specifies an alternate
text for an image.
A. text attribute   B. caption attribute   C. value attribute
D. alt attribute
iii.   In JavaScript, to check if "a" is not equal to "null"
A. if(a!=null)   B. if(a!null)   C. if(a!==null)   D. if(a!!null)
iv.   Ajax made popular by?
A.   Google   B. IBM   C. Microsoft   D. Sun Microsystem
v.   Which of the following are correct ways of creating an array in PHP
i)   city[0] = "mumbai" ii) $city[] = array("mumbai")
iii) $city[0] = "mumbai" iv) $city = array("mumbai");
A. iii) and iv)   B. ii) and iii)   C. Only i)   D. Only ii)

(b)   Fill in the blanks   (5M)
(.css, <td leftalign>, indexOf, www, ! (Exclamation), .cas, <td align = "left">,
valueOf, $(Dollar), HTTP)
i.   External Style Sheets are stored in file with extension _____.
ii.   _____ HTML tag to left-align the content of a cell.
iii.   _____ Method returns the index within the calling String object of
the first occurrence of the specified value in JavaScript.
iv.   _____ Server supports AJAX.
v.   In PHP, language variable starts with _____.

(c)   Write Answers in two lines.   (5M)
i)   What is difference between ordered list and unordered list?
ii)   What do you mean by CSS?
iii)   getDate( ) and getDay( ) functions in JavaScript
iv)   What is XML Element?
v)   Give the purpose of two event methods in jQuery.

Q. 2   Attempt the following (Any THREE)(Each of 5Marks)   (15M)
(a)   Explain any five text formatting tags in HTML5.
(b)   How to create links in HTML5? Explain its tags with an example.
(c)   Define image map? Explain <img> tag with four attributes.

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(f)   Write a PHP code to check number entered through HTML page is positive, negative or equal to zero. Display appropriate message.

Q. 5   Attempt the following (Any THREE) (Each of 5Marks)   (15M)
(a)   Explain the following table tags in HTML5 with example:-
        i.   <table>
        ii.   <tr>
        iii.   <th>
        iv.   <td>
        v.   <table align="right">
(b)   What is the use of the following CSS selectors? Explain with example:-
        i.   .class
        ii.   #id
(c)   What is the purpose of Window object in JavaScript? Explain its any two properties and methods with code snippet.
(d)   Diagrammatically explain AJAX Web Application Model.
(e)   Write a PHP code to create an array of five student names and display its values using foreach loop.

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