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. The tag used to create a client side image map
   A. <MAP> B. <USEMAP> C. <LINK> D. None of these
ii. In JavaScript, "return" and "case" are
   A. Keywords B. Data-types C. Prototypes D. Declaration statements
iii. Which of the following sets what kind of line decorations are added to an
     element, such as underlines, overlines, etc?
   A. text-style B. text-decoration C. text-line D. text-decoration-line
vi. The global object constructor for strings or a sequence of characters.
   A. String B. RegExpCalss C. RegExp D. StringExp
v. What will be the output of the following PHP code?
   $$\text{<?php}
   \text{a = 10;}
   \text{b = 10;}
   \text{c = 10;}
   \text{echo a == b and a == c;}
   $$
   A. ?>True B. Error C. False D. 1

(b) Fill in the blanks (5M)
( $(Dollar), object-based, verify, Javascript and Java, opening new document,
objective, transport, Javascript and XML, self, client side, exponentiation,
Asynchronous JavaScript and XML)

   i. JavaScript is often used for ________ validation.
   ii. In PHP language variable starts with ________.
   iii. In PHP script operator ‘+’ indicates ________.
   iv. AJAX stands for ________.
   v. Target attribute ________ is used to display response in same frame.

(c) Write Answers in two lines. (5M)

   i. What is the role of CSS selector?
   ii. Explain <select> tag
   iii. PHP session
   iv. State any two functions from the JavaScript Math object.
   v. Table tag in HTML
Q. 2 Attempt the following (Any THREE)(Each of 5Marks) (15M)
(a) Explain any five text formatting tags in HTML5.
(b) What is Stylesheet? List its types. Explain any ONE with an example.
(c) Explain the following tags in HTML5 with an example:-
   i.  <img>
   ii. <link>
   iii. <div>
   iv.  <span>
   v.   <title>
(d) Which are the CSS properties to work with background of a Page in HTML?
   Give its purpose with an example.
(e) Write HTML code to generate a form accepting the user last name (textfield)
   contact number(textfield), gender (radiobutton), hobbies (checkbox), country
   (dropdown) and buttons for resetting and submitting the form.
(f) Write an HTML and CSS code for the following:

<table>
<thead>
<tr>
<th></th>
<th>Average Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory</td>
<td>Practical</td>
</tr>
<tr>
<td>Male students</td>
<td>70</td>
</tr>
<tr>
<td>Female students</td>
<td>80</td>
</tr>
</tbody>
</table>

Q. 3 Attempt the following (Any THREE)(Each of 5Marks) (15M)
(a) Explain the following with valid example:
   i.    alert()    ii) prompt()
(b) What is the purpose of Location browser objects in JavaScript? Explain its three
   properties.
(c) Write a short note on XML DTD.
(d) Explain the following elements w.r.t XSLT with an example:
   i. xsl: attribute
   ii. xsl:value-of
   iii. xsl: attribute-set
(e) Describe Document Object Model with diagram.
(f) Write a JavaScript code to read a number from a text field and check if it is
   Armstrong Number or not (Assume the input to be always three digit number).

Q. 4 Attempt the following (Any THREE)(Each of 5Marks) (15M)
(a) Explain any two functions used for animation in jQuery.
(b) Write a PHP code to check given number is positive, negative or Zero. The
   number is to be accepted from HTML form.
(c) Explain the following jQuery traversing methods:-
   i. filter()
   ii. end()
   iii. contents()
   iv. find()
   v. first()

(d) What is the purpose of XMLHttpRequest object in AJAX? How to open it in
   AJAX? Explain.

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

(f) Explain the following functions w.r.t database handling in PHP:-
   i. mysql_connect()
   ii. mysql_tablename()
   iii. mysql_ping()
   iv. mysql_list_fields()
   v. mysql_drop_db()

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

(a) Write a code using PHP and HTML to accept department id from user and
   display department name and address in a table.
   [Table: Department {Deptid number (3), Deptname varchar (20), Deptaddress
   varchar2 (10)}]

(b) Diagrammatically explain AJAX Web Application Model.

(c) How does AJAX handle asynchronous data transfer?

(d) What is the purpose of following CSS properties?
   i. text-align
   ii. font-style
   iii. border
   iv. font-size
   v. display

(e) Explain any five PHP Comparison Operators.

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