**Code: DC71/DC118**         **Subject: INTERNET APPLICATIONS**

## DipIETE – CS (Current & New Scheme)

**Time: 3 Hours**          **June 2019**          **Max. Marks: 100**

*PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.*

**NOTE: There are 9 Questions in all.**
- **Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.**
- **The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.**
- **Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.**
- **Any required data not explicitly given, may be suitably assumed and stated.**

**Q.1**   **Choose the correct or the best alternative in the following:**          **(2×10)**

a.   _____ JavaScript statements embedded in an HTML page can respond to user events such as mouse-clicks, form input, and page navigation.
  **(A)** Local                    **(B)** Server-side
  **(C)** Client-side              **(D)** Native

b.   Full form of HTML is
  **(A)** Hyper Text Markup Language
  **(B)** Hyper Maker Language
  **(C)** Hyper medial Markup Language
  **(D)** Hyper Text Medium Language

c.   Which of the following is not a valid variable name in JavaScript?
  **(A)** firstName                **(B)** _first_and_last_names
  **(C)** FirstAndLast             **(D)** 2names

d.   Given a variable $email containing the string user@example.com, which of the following statements would extract the string example.com?
  **(A)** substr($email, strpos($email, "@"));
  **(B)** substr($email, strpos($email, "@")+1);
  **(C)** strchr($email, "@");
  **(D)** strstr($email, "@");

e.   The elements <DIV> and <SPAN> have the following characteristics
  **(A)** Elements <SPAN> and <DIV> define content to be inline or block-level
  **(B)** <DIV> and <SPAN> have no real meanings as html tags unless stylesheet is applied
  **(C)** Element <DIV> inherits properties defined for <SPAN> in a stylesheet
  **(D)** <DIV> and <SPAN> are used as alternatives for the element <P>

f.   JavaScript was originally developed by _____.
  **(A)** IE                       **(B)** Netscape
  **(C)** Chrome                   **(D)** None of these

g. What <tt> tag in HTML?
   **(A)** It renders fonts as transfer text font style
   **(B)** It renders fonts as truetype text font style
   **(C)** It renders fonts as truncate text font style
   **(D)** It renders fonts as teletype text font style

h. A PHP piece of code in files which act as libraries that can be included in any script by using the _____ command.
   **(A)** Include (file)                    **(B)** Import (file)
   **(C)** Require (file)                    **(D)** load (file)

i. The <small> and <big> tags are special in what way?
   **(A)** They can be repeated              **(B)** They work on anything
   **(C)** They are for images only          **(D)** None of these

j. The information placed in <HEAD></HEAD> section of HTML document is required for
   **(A)** the inner workings of the document and has nothing to do with the content of the document.
   **(B)** rendering the <body> content of HTML page.
   **(C)** controlling the JavaScript object.
   **(D)** providing information to the browser.

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**Answer any FIVE Questions out of EIGHT Questions.**
**Each question carries 16 marks.**

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**Q.2**  a. What are HTML tags? Briefly explain the following attributes of the HTML tags: **(8)**
   (i) <font>                    (ii) <img>
   (iii) <a>                     (iv) <div>
   (v) <table>                   (vi) <tr>

   b. How do we create frames in HTML? What is a frameset? **(8)**

**Q.3**  a. What is CSS? What are the benefits of using CSS? Explain the types of CSS with syntax. **(1+2+5)**

   b. What is a layer? How are they described within HTML code? **(8)**

**Q.4**  a. List out HTML table tag and explain <tr> and <td> **(4)**

   b. List out types of INPUT elements of a <form> tag in HTML. **(4)**

   c. What is the use of functions in JavaScript? Explain any three functions in JavaScript for string manipulation. **(8)**

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**Q.5**   a.  What do you understand by 'rollover' in JavaScript? Write one JavaScript code to illustrate 'rollover' to switch between two image files.          **(2+6)**

   b.   Distinguish between Static and Dynamic HTML.          **(8)**

**Q.6**   a.  Write a Perl program for displaying all elements of array. Also describe about functions which operate on Array.          **(8)**

   b.  What is Event Handler in JavaScript? What is the significance of the Event Handler available in JavaScript, write any six of them.          **(8)**

**Q.7**   a.  Describe the steps to create Cookies in terms of CGI.          **(8)**

   b.  Explain the methods of tracking the users with hidden data.          **(8)**

**Q.8**   a.  List out PHP data types.          **(4)**

   b.  Write a PHP program to find out maximum number out of three numbers.          **(6)**

   c.  Write a PHP script to establish a connection with the mysql database and insert a new employee's details entered from a form.          **(6)**

**Q.9**   a.  Explain Document Object Model (DOM) in brief.          **(10)**

   b.  List three advantages of using Perl to manipulate XML.          **(6)**