Code: DC71   **Subject: INTERNET APPLICATIONS**

DipIETE – CS (Current Scheme)

Time: 3 Hours   **JUNE 2015**   **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. CGI programming is

   (A) Process based   **(B)** Thread based
   (C) Thread under web server   **(D)** None of these

b. What does vlink mean?

   (A) visited link
   (B) very good link
   (C) active link
   (D) none of these

c. Which of the following statements is incorrect regarding multimedia on the web?

   (A) The MPEG, AIFF and WAV are cross-platform formats
   (B) The MPEG, AU and MIDI are cross-platform formats
   (C) The SND format has a relatively low fidelity
   (D) VRML can be used to model and display 3D interactive graphics

d. The elements <DIV> and <SPAN> have the following characteristics

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

e. Which of the following statement is not true regarding JavaScript?

   (A) JavaScript is a loosely typed language
   (B) JavaScript is an object-based language
   (C) JavaScript is event driven
   (D) A JavaScript embedded in an HTML document is compiled and executed by the client browser

f. Which of the following statements is false regarding "Cookies"?

(A) Cookies are programs which run in the background of the web-client
(B) Cookies have the potential of being used to violate the privacy of users
(C) Cookies are very helpful in keeping track of users in developing online
shopping cart applications, personalized portals and in advertising on web sites
(D) Cookies cannot contain more than 4Kb of data

g. Which of the following statements is true regarding HTTP?

(A) Web browsers use only HTTP as a communication protocol with servers
(B) It does not maintain any connection information on previous transactions
(C) It is designed to route information based on content
(D) It refers to resources using their Universal Resource Identifier (URI)

h. What is the tag for an inline frame?

(A) Iframe   **(B)** Inframe
(C) frame   **(D)** inlineframe

i. While working on a JavaScript project, in your JavaScript application, which function would you uses to send messages to users requesting for text input?

(A) Display()   **(B)** Prompt()
(C) Alert()   **(D)** GetInput()

j. Which property does one use to align text to the right side of a block-level element in Cascading Style Sheets?

(A) horizontal-align   **(B)** align
(C) block-align   **(D)** text-align

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

Q.2 a. What are HTML tags? Discuss about the attributes of the following HTML tags
(i) <font>
(ii) <img>
(iii) <a>
(iv) <div>
(v) <table>
(vi) <tr>   **(4+6)**

b. What is the role of HTML Forms?   **(6)**

Q.3 a. Write HTML document with CSS, such that when you position the mouse over a link it should display crosshair cursor.   **(3)**

b. What do you understand by 'style'? What are the benefits of using styles compared with placing formatting directly into the text of webpage? State the different styles which can be applied to HTML document.   **(10)**

c. What shortcomings of cascading style sheets does CSS2 address?   **(3)**

Q.4 a. What are the governing rules for forming name of JavaScript variable? JavaScript has four types of data, discuss about them.   **(8)**

   b. Discuss about String manipulation functions and Math Library in JavaScript.
                                                                         (8)

Q.5 a. Write a JavaScript to handle mouse rollover event on a button in a page.   **(8)**

   b. Write a function to demonstrate moving of images on the screen.   **(8)**

Q.6 a. What is scalar in perl? Discuss about the functions which operate on scalars.
         (i) substr ( )
         (ii) uc ( )
         (iii) chomp ( )
         (iv) chop ( )
         (v) lc ( )
         (vi) length ( )   **(8)**

   b. Write a perl program for displaying all elements of array. Discuss about functions which operate on Array.   **(8)**

Q.7 a. What is CGI? Explain its working with a neat diagram.   **(8)**

   b. Explain the following applications of CGI: forms, gateways and virtual documents.   **(8)**

Q.8 a. What are the differences between Perl and PHP when handling with Web pages?
                                                                         (8)
   b. What's the Difference Between Storing Your Data in Cookies and in Session Variables? When to use Sessions rather than Cookies?   **(8)**

Q.9 a. What are the differences between general markup schemes such as XML and proprietary systems such as Rich Text Format?   **(5)**

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

   c. Why does XML use both streaming and tree-based parsing?   **(5)**