DiplETE – CS (NEW SCHEME) - Code: DC71

Subject: INTERNET APPLICATIONS

Time: 3 Hours

JUNE 2011

Max. Marks: 100

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 10 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. Which of the following tag is used to embed image in HTML page?

  (A) <img>   **(B)** <link>
  (C) <href>   **(D)** <images>

b. Which tag is used to set the title of a HTML page?

  (A) <body>   **(B)** <title>
  (C) <head>   **(D)** <metadata>

c. Which attribute is used with <font> tag for assigning style?

  (A) by using style attribute   **(B)** by using size attribute
  (C) by using link attribute   **(D)** by using font attribute

d. What is the purpose of DOM?

  (A) Viewing the XML Document
  (B) Accessing the XML Document Elements
  (C) Transforming the XML Document to other format
  (D) Conversion of XML to PDF

e. The CDATA occurs _____ of XML document.

  (A) only at the top   **(B)** only at the end
  (C) only after prolog   **(D)** anywhere

f. The browser window is a mutable object that can be addressed by java code. The open() method

  (A) opens a new window   **(B)** opens a new page
  (C) opens a new hyperlink   **(D)** opens a site

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g. What is the purpose of #!/usr/bin/perl -w

 (A) It is a commented line
 (B) It is a prolog of perl script
 (C) It is a mandatory line but perl interpreter will ignore it.
 (D) It invokes perl interpreter.

h. A PHP pieces of code in files which act as libraries that can be included in any script by using the command

 (A) require(file)   **(B)** import(file)
 (C) include(file)   **(D)** load(file)

i. What is the purpose of ucfirst(string) in PHP

 (A) return a copy of the string with the first character converted to upper case
 (B) return a copy of the string with the characters converted to upper case
 (C) returns a copy of the string with the first character of each word converted to upper case.
 (D) return a copy of the string with the last character to lower case.

j. Which HTML tag is used to setup link between HTML Page and CSS file.

 (A) <body> tag   **(B)** <link> tag
 (C) tag   **(D)** <meta> tag

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>   **(2+6)**

 b. Write a HTML document which contains a list of product name. Each product name will have a hyperlink to indicate detail about product. How HTML form validation is done.   **(6+2)**

Q.3 a. Describe the different ways that styles can be added to a page. What is stylesheet class? What do you mean by cascading Styles?   **(4+2+2)**

 b. Write a HTML page and a stylesheet for placing image, text and audio file in a specified position on the page.   **(8)**

Q.4 a. What are the governing rules for forming name of JavaScript variable? JavaScript has four types of data, discuss about them.   **(3+5)**

 b. Discuss about String manipulation functions and Math Library in JavaScript.
                                                                              (4+4)

Q.5 a. What are the benefits of using the browser status bar to pass messages to the user? **(8)**

b. Describe briefly the Rollover Buttons with suitable examples. **(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 ( )

(2+6)

b. Write a perl program for displaying all elements of array. Discuss about functions which operate on Array. **(2+2)**

c. Write a perl program for displaying all elements of Hash. Discuss about functions which operate on Hash. **(2+2)**

Q.7 a. What is CGI scripting? Use CGI pm to write a script which returns an empty HTML page. **(8)**

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

Q.8 a. What are the advantages of developing web based software in PHP? Write a PHP script for establishing connection with MYSQL database server. Assume that database server is in your local machine. **(3+3)**

b. Write a HTML form and PHP script for developing user authentication system **(10)**

Q.9 a. Explain XML in detail. What are Internal Entity in XML? Explain the techniques used to do XML validation **(2+3+3)**

b. What is DTD and schema? Write an example XML document and DTD.
(2+3+3)