

**DiplETE – CS (Current & New Scheme)**

Time: 3 Hours

**JUNE 2017**

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. <b> tag makes the enclosed text bold. What is other tag to make text bold?

- (A) <strong> (B) <dar>  
(C) <black> (D) <emp>

b. Which tag allows you to add a row in a table?

- (A) <td> and </td> (B) <cr> and </cr>  
(C) <th> and </th> (D) <tr> and </tr>

c. Which of the following ways below is correct to write a CSS?

- (A) p {color: red; text-align:center};  
(B) p {color: red; text-align:center}  
(C) p {color: red; text-align:center;}  
(D) p (color: red; text-align:center;)

d. To specify table border in CSS, \_\_\_\_\_ property is used

- (A) tbl-border (B) table-border  
(C) tb-border (D) border

e. Which of the following is not a valid JavaScript variable name?

- (A) 2names (B) \_first\_and\_last\_names  
(C) FirstAndLast (D) All of these

f. What is the correct JavaScript syntax to write "Hello World"?

- (A) System.out.println("Hello World")  
(B) println ("Hello World")  
(C) document.write("Hello World")  
(D) response.write("Hello World")

g. What will be the value of \$1 after execution of the following code?

```
my $txt = 'I am learning Perl';
$txt =~ /(\w+)$/;
```

- (A) Perl (B) I  
(C) I am learning perl (D) Undef

- h. A header in CGI script can specify  
 (A) Format of the document (B) New location of the document  
 (C) Both (A) and (B) (D) Start of the document
- i. DTD definition is used along with XML to specify  
 (A) The data types of the contents of XML document  
 (B) The presentation of XML document  
 (C) The links with other documents  
 (D) The structure of XML document
- j. What is XML?  
 (A) Subset of SGML, Extensible Markup Language  
 (B) Superset of SGML, Extensible Markup Language  
 (C) Like SGML, Extended Markup Language  
 (D) None of these

**Answer any FIVE Questions out of EIGHT Questions.**

**Each question carries 16 marks**

- Q.2** a. Give the difference between linking to an image, a website, and an email address. (4)  
 b. What is XHTML? Why to use XHTML? XHTML is better than HTML- Justify your answer. (4)  
 c. Write short note on HTML multimedia. (8)
- Q.3** a. Give merits and demerits of External Style Sheets. (4)  
 b. Explain CSS layers with small example. (4)  
 c. Explain block formatting context in CSS with example. (8)
- Q.4** a. List out any four JavaScript string methods and explain substr() and replace() method. (8)  
 b. Write short note on JavaScript regular expression. (8)
- Q.5** a. How data can be validated at client side using JavaScript? (8)  
 b. Give an example of moving images using JavaScript. (4)  
 c. How to open a new browser window with JavaScript? (4)
- Q.6** a. Write Perl program to find average of numbers. (4)  
 b. Write short note on Perl Hashes (8)  
 c. List out basic control structure available in Perl and explain loops (4)
- Q.7** a. Write short note on CGI Overhead. (8)  
 b. What is cgi.pm? Explain with one example. (8)
- Q.8** a. Give difference between submitting form values through POST method and through GET method. (8)  
 b. Explain regular expression in PHP. (8)
- Q.9** a. Explain XML schema with example. Also give purpose of using XML schema. (8)  
 b. What is XML DOM (Document object model)? Write DOM for any sample html table. (8)