

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

Time: 3 Hours

**JUNE 2016**

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. Full form of HTML is  
 (A) Hyper Maker Language (B) Hyper Text Markup Language  
 (C) Hyper medial Markup Language (D) Hyper Text Medium Language
- b. <br> stands for  
 (A) Break Line (B) Break Rear  
 (C) Break Root (D) Break Right
- c. Default client side scripting is  
 (A) HTML (B) JavaScript  
 (C) C# (D) PHP
- d. The full form of CSS is  
 (A) Cascade Style Streams (B) Color Sensitive Style  
 (C) Colorful Style Systems (D) Cascading Style Sheets
- e. Which of the following is not a JavaScript operator?  
 (A) new (B) this  
 (C) delete (D) typeof
- f. In JavaScript regular expression literals are delimited by  
 (A) | and | (B) \ and \  
 (C) / and / (D) ^ and ^
- g. Which of the following language can be used as a CGI language?  
 (A) C (B) C++  
 (C) Perl (D) All of these
- h. Perl is:  
 (A) A type of interactive web page (B) A programming language  
 (C) An application program (D) A relational database
- i. === operator of PHP compares  
 (A) Value (B) Data Type  
 (C) Variable (D) Value and Date Type
- j. Which of the following can be verified with DTD?  
 (A) control (B) data  
 (C) description (D) None of these

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

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- Q.2** a. Explain following Built in PHP string functions. (4)  
(i) strlen  
(ii) substr
- b. List out PHP data types. (4)
- c. Write syntax of Switch...Case statement (2)
- d. Write a PHP program to find out maximum number out of three numbers. (6)
- Q.3** a. What are XML elements? Give naming rules to select element name. (4)
- b. Show with an example how to use a DTD in an XML document internally. (4)
- c. List out components of XML schema definition. (2)
- d. Explain NAMESPACE in XML in detail. (6)
- Q.4** a. What is the purpose of LIST tag in HTML? Explain the types of LIST tags that HTML supports with example. (2+6)
- b. List out HTML table tag and explain <tr> and <td> (4)
- c. List out types of INPUT elements of a <form> tag in HTML. (4)
- Q.5** a. List out the different methods of incorporating style information in an HTML document. Explain Embedded Style sheet and Inline Style sheet. (8)
- b. Explain different positioning properties and values in defining styles of a webpage. (4)
- c. Design a webpage with the help of CSS. (4)
- Q.6** a. Explain *For* loop control structure with example in JavaScript. (6)
- b. List out Built in objects provided by JavaScript and explain Date object in detail. (8)
- c. List out JavaScript Data types. (2)
- Q.7** a. Write JavaScript to create a new window using the open() method on the window Object. (8)
- b. List out any EIGHT JavaScript events along with their occurrences (i.e. when these event occur) (8)
- Q.8** a. What is scalar in Perl? List and explain different types of scalars. (4)
- b. How array can be created in Perl? Write code to add and remove an element in array. (4)
- c. What is Hashes in Perl in detail? Explain, how will you create hashes and access hash element in Perl? (8)
- Q.9** a. What is CGI? Draw CGI Architecture Diagram. (4)
- b. How to set up and retrieve cookies in CGI? (6)
- c. Define CGI.pm Module. List out any four CGI Handling Methods and Form Generation Methods. (6)