

Time: 3 Hours

DECEMBER 2014

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. Which element do you use to create line break?
- (A) <br> (B) <b>  
(C) <body> (D) None of these
- b. Each object requires a \_\_\_\_\_ which identifies the URL of the object
- (A) hashtag  
(B) tag  
(C) classid  
(D) sessionid
- c. Using following mechanisms, we can apply styles to our HTML documents:
- (A) The styles can be defined within the basic HTML tags.  
(B) Styles can be defined in the <head> section and applied to the whole document  
(C) Both (A) and (B)  
(D) None of these
- d. With CSS, you can suggest\_\_\_\_\_
- (A) display styles to browsers  
(B) print formats to printers  
(C) device dependent styles for other media such as page readers for the vision impaired  
(D) All of these
- e. How can you create a regular expression in Java script?
- (A) regex = /fish | fowl/;  
(B) regex = new RegExp ("fish | fowl");  
(C) Both (A) and (B)  
(D) None of these

**Code: DC71**

**Subject: INTERNET APPLICATIONS**

- f. JavaScript was originally developed by \_\_\_\_\_
- (A) IE (B) Chrome  
(C) Netscape (D) None of these
- g. To run a Perl program use\_\_\_\_\_.
- (A) program name arg1 arg2 ... (B) perl program\_name arg1 arg2 ...  
(C) Both (A) and (B) (D) None of these
- h. The CGI.pm makes Web CGI programming easy. It can.....
- (A) Receive and parse incoming form data  
(B) Create forms with initial values derived from user input  
(C) Support file upload, cookies, cascading style sheets, server push, and frames  
(D) All of these
- i. XML documents are composed of just three things:
- (A) elements, control information and entities  
(B) elements, control information and declaration  
(C) Type Description, control information and declaration  
(D) DTD, DTL, SGML
- j. Which of the following is not a main component of a Web page form?
- (A) Input controls  
(B) Output controls  
(C) Form tag  
(D) Submit button

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

- Q.2** a. What are the Core Attributes of XHTML elements? (8)
- b. Demonstrate the use of some HTML tags through an example code. (8)
- Q.3** a. What is a layer? How are they described within HTML code? Illustrate using a suitable code making use of CSS. (12)
- b. (i) Write the proper CSS to give p tag a margin of 10 pixels on all sides. (2)
- (ii) Create a class in CSS called footer that sets the font-size to 10 pixels. (2)
- Q.4** a. Briefly explain any four Java Script date functions. (8)
- b. How to use "join()" to create a string from an array using JavaScript? Give example code to demonstrate. (4)
- c. How to make a array as a stack using JavaScript? Write code. (4)
- Q.5** a. Write DHTML program for a Smart Form to accept Name, Country, Phone and country code. The program must examine the country setting in the address part of the form and add/remove an input field for the international telephone code. (8)

- b. Write short note on following giving appropriate code: (4×2)  
 (i) The status bar  
 (ii) Rollover button
- Q.6** a. What is the meaning of “Automatic Data Context” in perl? Illustrate through an example. (8)  
 b. What are regular expressions in perl? Write a code demonstrating the use of a variable as a regular expression. (8)
- Q.7** a. What is a Cookie? What is the format of HTTP Cookie Headers? (8)  
 b. Write a CGI script that extracts the parameters from the HTTP request and displays their names and values in an unordered list. (8)
- Q.8** a. What combination of boolean values for \$a, \$b, \$c and \$d will result in the variable \$number being equal to 3? (6)
- ```
<?php
$a = null;
$b = null;
$c = null;
$d = null;

if($a && !$b) {
  if(!$c && !$d) {
    if($d && ($a || $c)) {
      if(!$d && $b) {
        $number = 1;
      } else {
        $number = 2;
      }
    } else {
      $number = 3;
    }
  } else {
    $number = 4;
  }
} else {
  $number = 5;
}
?>
```
- b. Write a PHP script to check whether the user has entered information in all the required fields in a form. Also demonstrate the use of array-search() function. (10)
- Q.9** a. Describe briefly the five most important modules in the architecture of DOM. What are the two fields which are not part of the DOM specification? (11)  
 b. What is a DTD? Why is it used? (5)