Code: AC75/AT75   **Subject: INTERNET APPLICATIONS**

AMIETE – CS/IT

Time: 3 Hours   **DECEMBER 2013**   **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 an internal style sheet?

   (A) <style>   **(B)** <styles>
   (C) <css>   **(D)** <link>

b. To change the colours of links or of the page background, _____ values are placed in the <body> tag.

   (A) ASCII   **(B)** Binary
   (C) Hexadecimal   **(D)** None of these

c. In CSS2, if a number of page boxes are transferred to the same side of a sheet of paper, it is called _____ printing.

   (A) Simplex   **(B)** n-up
   (C) duplex   **(D)** None of these

d. Perl was originated by

   (A) Larry Ellison   **(B)** Bill Gates
   (C) Larry Wall   **(D)** Steve Jobs

e. Which of the following is/are command-line switches in Perl?

   (A) -c   **(B)** -d
   (C) -s   **(D)** all of these

f. The acronym RSS stands for:

   (A) Rich Site Summary   **(B)** RDF Site Summary
   (C) Really Simple Syndication   **(D)** all of these

g. The XML has neither meaning nor context without a grammar against which it can be validated. The grammar is called_____

    (A) DTC   **(B)** DND
    (C) DOT   **(D)** DTD

h. _____ is a file function that returns TRUE if the file exists and FALSE if it does not.

    (A) file(filename)   **(B)** file_exists(filename)
    (C) fopen(filename, mode)   **(D)** fflush($.fp)

i. DTD in XML document stands for

    (A) Document Type Definition   **(B)** Definition Type Document
    (C) Definition Type Documenting   **(D)** None of these

j. In Perl, to split every character out of the string, _____ is used

    (A) split(/ /)   **(B)** split(//)
    (C) split(" ")   **(D)** none of these

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

Q.2   a. How HTML is used to Create a Web Document?   **(4)**

      b. How a simple web page is created? Explain using suitable example.   **(6)**

      c. What is XHTML? Why it is known as evolutionary?   **(6)**

Q.3   a. What are the benefits of using styles compared with placing formatting directly into the text of the web page? Describe different ways that styles can be added to a page.   **(8)**

      b. What are the improved features in CSS2 as compared to CSS?   **(8)**

Q.4   a. How to use strings as array indexes using JavaScript?   **(3)**

      b. What is JavaScript Function? Illustrate through a suitable example.   **(8)**

      c. "Events are the beating heart of any JavaScript application." Explain how. **(5)**

Q.5   a. What is a Rollover Button? What are the types and uses of Rollover Buttons?   **(8)**

      b. What are the pros and cons in deciding whether to use JavaScript Library or to Code yourself?   **(8)**

Q.6 a. What is the main function of a regular expression in perl? Write a code demonstrating the use of a variable as a regular expression. **(8)**

b. How do you define and call a subroutine in perl? How are the parameters passed? Write a sample code demonstrating the syntax. **(8)**

Q.7 a. What is CGI? Explain. **(4)**

b. How to save a cookie after the header has been sent in Perl CGI? Explain. **(4)**

c. Describe the architecture of Perl DBI. How does the separation of the drivers from the DBI itself help? **(8)**

Q.8 a. Write simple PHP script for sieve of Eratosthenes (finding all prime numbers up to a specified integer). **(8)**

b. Explain the procedure to Use Sessions in your PHP Scripts. **(8)**

Q.9 a. "Reading XML can be more complicated than writing it, if only because we have so many options for reading XML. There are basically two approaches, using an XML parser or using XSLT". Elaborate. **(6)**

b. What do you mean by DOM? Explain how XML DOM is used? **(6)**

c. Why do applications use a DTD when the XML document follows the same structure? **(4)**