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

## AMIETE – CS/IT

**Time: 3 Hours**          **DECEMBER 2012**          **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.   It is possible to display pictures (i.e, images) in HTML specification by using the tag.

   **(A)** <GR src = Picture file>          **(B)** <PIC src =Picture file>
   **(C)** <IMG src =Picture file>          **(D)** <GIF src=Picture file>

b.   Well formed XML document means

   **(A)** it contains a root element
   **(B)** it contains an element
   **(C)** it contains one or more elements
   **(D)** must contain one or more elements and root element must contain all other elements

c.   Which of the following XML fragments are well-formed?
   **(A)** <myElement myAttribute="value1 <= value2"/>
   **(B)** <myElement myAttribute="value1 & value2"/>
   **(C)** <myElement myAttribute="value1 > value2"/>
   **(D)** None of these

d.   What happens if no file path is given in include() function?

   **(A)** PHP continues to execute the script
   **(B)** Results in a fatal error
   **(C)** Include_path is made use of
   **(D)** It halts the script

e.   Which of the following way 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;)

f.  Every node has some properties that contain some information about the node. The properties are_____.

   **(A)** nodeName                              **(B)** nodeValue
   **(C)** nodeType                               **(D)** All of these

g.  The History object is automatically created by the JavaScript runtime engine and consists of an array of _____.

   **(A)** Images                                 **(B)** URLs
   **(C)** JavaScript Commands                    **(D)** None of these

h.  Which of the following is not the HTML DOM Object?

   **(A)** Area                                   **(B)** Image
   **(C)** Frame                                  **(D)** TextBox

i.  A graphical or text depiction of the relationship between different groups of content on a website is a:

   **(A)** Wireframe                              **(B)** Page template
   **(C)** Site map                               **(D)** Cascading Style Sheet (CSS)

j.  Which information about a client is NOT usually available to a server via the http protocol?

   **(A)** The IP address of a user.
   **(B)** The URL of the referring webpage.
   **(C)** For password protected pages: the username and password.
   **(D)** The URL of a user's homepage.

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

**Q.2**  a.  Use HTML to make an image map with clickable regions on it.            **(6)**

   b.  What is a frameset? Write HTML code of a frameset to create a table of two rows and a single table.                                                        **(6)**

   c.  Write a HTML code to link to a mail message (assuming that the mail is already installed).                                                                **(4)**

**Q.3**  a.  Using CSS, write a code to create a transparent box with text on a background image.                                                                    **(6)**

   b.  Discuss the following CSS terms with examples:
       (i)   CSS Border                          (ii)  Padding Properties
       (iii) Selectors                           (iv)  CSS media types          **(10)**

**Q.4**  a.  Write a code in Javascript which checks if a field has been left empty. If the field is blank, an alert box alerts a message, the function returns false and the form will not be submitted.                                                      **(6)**

b. Write a Javascript code to resize a window to a specified size.          **(6)**

c. Explain the terms 'Exception Handling' with an appropriate example in Javascript.          **(4)**

**Q.5**  a. Generate a multiplication table using nested loops in Javascript.          **(10)**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 |
| 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

b. How can we download multiple pages in a single download? Explain by using a DHTML and Javascript program.          **(6)**

**Q.6**  a. Give features of PERL as a programming language. Write a program in PERL to create a calendar which displays the current date, month and year.          **(10)**

b. Write short notes on the following:          **(3+3)**
   (i)  PERL Control Structures          (ii)  Arrays in PERL

**Q.7**  a. Write a program in CGI to implement multiline text fields and input. Implement scrolls also. Explain the tags used and their attributes also.          **(6)**

b. Implement reading cookies through CGI and HTML. Explain the code.          **(6)**

c. Give a short note on uploading files on web with PERL.          **(4)**

**Q.8**  a. Give a short note on PHP-XML Parser Functions.          **(8)**

b. Using PHP, how can we create a database connection, then a result-set, and finally display the data in an HTML table.          **(8)**

**Q.9**  a. Exemplify DOM to present an XML document as a tree-structure.          **(8)**

b. Write short notes on:
   (i)  XML Namespaces          (ii)  PHP printf formatting codes          **(4+4)**