

**AMIETE – CS/IT (Current Scheme)**

Time: 3 Hours

**DECEMBER 2015**

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)**

- Which of the following options is correct with regard to HTML?
  - It is a modeling language
  - It is a DTP language
  - It is a partial programming language
  - It is used to structure documents
- When trying to access a URL, the following message is displayed on the browser:  
Server; Error 403  
What could be the reason for the message?
  - The requested HTML file is not available
  - The URL refers to a CGI script and the header of the script does not indicate where the interpreter is located
  - The path to the interpreter of the script file is invalid
  - The requested HTML file or CGI script has insufficient permission.
- Which of the following statements is incorrect regarding multimedia on the web?
  - The MPEG, AIFF and WAV are cross-platform formats
  - The MPEG, AU and MIDI are cross-platform formats
  - The SND format has a relatively low fidelity
  - VRML can be used to model and display 3D interactive graphics
- The elements <DIV> and <SPAN> have the following characteristics
  - Element <DIV> inherits properties defined for <SPAN> in a stylesheet
  - <DIV> and <SPAN> have no real meanings as html tags unless stylesheet is applied
  - Elements <SPAN> and <DIV> define content to be inline or block-level
  - <DIV> and <SPAN> are used as alternatives for the element <P>
- Which of the following statement is not true regarding JavaScript?
  - JavaScript is a loosely typed language
  - JavaScript is an object-based language
  - JavaScript is event driven
  - A JavaScript embedded in an HTML document is compiled and executed by the client browser.

- f. Which of the following statements is false regarding “Cookies”?
- (A) Cookies are programs which run in the background of the web-client
  - (B) Cookies have the potential of being used to violate the privacy of users
  - (C) Cookies are very helpful in keeping track of users in developing online shopping cart applications, personalized portals and in advertising on web sites
  - (D) Cookies cannot contain more than 4Kb of data
- g. Which of the following statements is true regarding HTTP?
- (A) Web browsers use only HTTP as a communication protocol with servers
  - (B) It does not maintain any connection information on previous transactions
  - (C) It is designed to route information based on content
  - (D) It refers to resources using their Universal Resource Identifier (URI)
- h. Which of the following is true about XHTML?
- (A) It is a new hybrid technology that is different from both XML and HTML
  - (B) It has totally replaced HTML as the tool for building Web pages
  - (C) It is a reformulation of HTML in XML
  - (D) One cannot use it to create Web pages
- i. While working on a JavaScript project in your JavaScript application, which function would you use to send messages to users requesting for text input?
- (A) Display()
  - (B) Prompt()
  - (C) Alert()
  - (D) GetInput()
- j. Which property does one use to align text to the right side of a block-level element in Cascading Style Sheets?
- (A) horizontal-align
  - (B) align
  - (C) block-align
  - (D) text-align

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

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- Q.2** a. What are HTML tags? Discuss about the attributes of the following HTML tags
- |             |            |
|-------------|------------|
| (i) <font>  | (ii) <img> |
| (iii) <a>   | (iv) <div> |
| (v) <table> | (vi) <tr>  |
- (4+6)**
- b. What are applets? Explain how to use applets inside HTML pages. **(6)**
- Q.3** a. Describe the different ways that styles can be added to a page. What do you mean by cascading styles? **(8)**
- b. Write a HTML page and a style sheet for placing image, text and audio file in a specified position on the page. **(8)**
- Q.4** a. What are the governing rules for forming name of JavaScript variable? JavaScript has four types of data, discuss about them. **(8)**
- b. Discuss about String manipulation functions and Math Library in JavaScript. **(8)**



**Code: AC75 / AT75**

**Subject: INTERNET APPLICATIONS**

- Q.5** a. Write a JavaScript to handle mouse rollover event on a button in a page. **(8)**  
b. Write a function to demonstrate moving of images on the screen. **(8)**
- Q.6** a. What is scalar in perl? Discuss about the functions that operate on strings. **(8)**  
(i) substr ( )      (ii) uc ( )  
(iii) chomp ( )      (iv) chop ( )  
(v) lc ( )      (vi) length ( )
- b. Write a perl program for displaying all elements of an array. List PERL functions which operate on Array. **(4)**  
c. Write a perl program for displaying all elements of Hash. **(4)**
- Q.7** a. What is CGI? Explain its working with a neat diagram. **(8)**  
b. Explain the following applications of CGI: forms, gateways and virtual documents. **(8)**
- Q.8** a. What are the differences between Perl and PHP when handling with Web pages? **(8)**  
b. What's the Difference Between Storing Your Data in Cookies and in Session Variables? When to use Sessions rather than Cookies? **(8)**
- Q.9** a. Discuss the general mark up schemes such as XML and proprietary system such as Rich Text Format. **(6)**  
b. Create an XML document which holds appointments that include day, date, time of events and name. **(10)**