

AMIETE – CS/IT (Current & New Scheme)

Time: 3 Hours

June 2018

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. In CSS2, _____ content is designed for speech synthesis software.
(A) Print (B) Aural
(C) handheld (D) embossed
- b. GD::Image is used to
(A) read, store and write the image data
(B) store the image data
(C) write the image data
(D) read the image data
- c. Which of the following statements is incorrect regarding multimedia on the web?
(A) VRML can be used to model and display 3D interactive graphics
(B) The MPEG, AU and MIDI are cross-platform formats
(C) The SND format has a relatively low fidelity
(D) The MPEG, AIFF and WAV are cross-platform formats
- d. Which of the following is true about XHTML?
(A) It is a reformulation of HTML in XML
(B) It has totally replaced HTML as the tool for building Web pages
(C) It is a new hybrid technology that is different from both XML and HTML
(D) One cannot use it to create Web pages
- e. Which one of the following is not a JavaScript's data type?
(A) Numeric (B) Character
(C) Boolean (D) Null
- f. Which of the following is not the scope of variables in PHP?
(A) local (B) global
(C) static (D) extern

- g. There is a way of describing XML data, how?
 (A) XML uses a DTD to describe the data
 (B) XML uses a description node to describe data
 (C) Both (A) and (B)
 (D) XML uses XSL to describe data
- h. 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) DTD (D) DOT
- i. 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) (D) <GIF src=Picture file>
- j. Which function in javascript do not provides a dialog box with some message?
 (A) the alert() function (B) the prompt() function
 (C) the confirm() function (D) the optionDialog() function

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

- Q.2** a. Explain any form event, keyboard event and mouse event handlers in HTML. (8)
 b. Write the HTML code for the following table: (8)

Firstname	Lastname	Points
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

- Q.3** a. What is counter? Explain in detail with examples. (8)
 b. Describe the different ways of styles that can be added to a page. (8)
- Q.4** a. Explain String Length, charAt string manipulation in javascript with example. (8)
 b. Write a Javascript code to resize a window to a specified size. (8)
- Q.5** a. Write a JavaScript to handle mouse rollover event on a button in a page. (8)
 b. Write a code to add and remove HTML elements dynamically with JavaScript. (8)

- Q.6** a. How do you define and call a subroutine in perl? How are the parameters passed? Write a sample code demonstrating the syntax. (8)
- b. Define regular expression and give PHP specific function for patterns. (8)
- Q.7** a. What is CGI? Explain development of CGI applications. (8)
- b. For what purpose HTML::Mason is used? Explain how to install HTML::Mason. Write a code in HTML::Mason to print the date today. (8)
- Q.8** a. How to use multiple source files in PHP? Explain with examples. (6)
- b. What is Cookie? Explain the function used in PHP to create Cookie. (4+6)
- Q.9** a. Explain the following terms in XML: (3+3+2)
- (i) Prolog
- (ii) Entity
- (iii) Parser
- b. Exemplify DOM to present an XML document as a tree-structure. (8)