

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) (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;)

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- f. Every node has some properties that contain some information about the node. Which of the following 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)

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- b. Write a Javascript code to resize a window to a specified size. (4)
- 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)