

AMIETE – CS/IT

Time: 3 Hours

JUNE 2014

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 of the following identifies the application to which a message arriving from the internet should be given?

- (A) Protocol (B) Port Number
(C) Domain (D) Hop Count

b. Which sequence of HTML tags are correct?

- (A) `<html><head><title></title></head><body></body></html>`
(B) `<html><head></head><body><title></title></body></html>`
(C) `<html><head><title></title><body></body></head></html>`
(D) `<html><title></title><head></head><body></body></html>`

c. `<script type="text/javascript">
x=4+"4";
document.write(x);
</script>`

The output of the code given is:

- (A) 44 (B) 8
(C) 4 (D) Error in the output

d. What property would you use to redirect a visitor to another page?

- (A) document.URL (B) window.location.href
(C) .document.location.href (D) link.href

e. PHP is a widely used _____ scripting language that is especially suited for web development and can be embedded into html

- (A) Open source general purpose (B) Proprietary general purpose
(C) Open source special purpose (D) Proprietary special purpose

- Q.5** a. Write a code to add and remove HTML elements dynamically with JavaScript. (8)
- b. Write the JavaScript code to display messages in the status bar when the mouse is moved over a link. (8)
- Q.6** a. Briefly explain and give syntax for any five PERL functions that operate on arrays of data. (10)
- b. Explain the concept of nested data structures with an example in PERL. (6)
- Q.7** a. Give a code in PERL to explain the GET and POST methods. Explain how information is passed to a CGI program by POST method. (8)
- b. Give a procedure in CGI PERL to perform the following methods:
(i) Set up Cookies (ii) Retrieve Cookies (8)
- Q.8** a. How to declare data types in PHP? Explain with examples of syntax and usage. (8)
- b. What do you understand about Numeric array, Associative array and Multidimensional array in PHP? Give examples. (8)
- Q.9** a. Explain the following terms in XML:
(i) Prolog
(ii) Entity
(iii) Parser (9)
- b. Give an example which shows XML document has a reference to an XML Schema. (7)