

**Subject: INTERNET APPLICATIONS****Time: 3 Hours****Max. Marks: 100****JUNE 2011****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 10 marks.**
- **Any required data not explicitly given, may be suitably assumed and stated.**

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**Q.1 Choose the correct or the best alternative in the following: (2×10)**

a. Which of the following tag is used to embed image in HTML page?

- |            |              |
|------------|--------------|
| (A) <img>  | (B) <link>   |
| (C) <href> | (D) <images> |

b. Which tag is used to set the title of a HTML page?

- |            |                |
|------------|----------------|
| (A) <body> | (B) <title>    |
| (C) <head> | (D) <metadata> |

c. Which attribute is used with <font> tag for assigning style?

- |                              |                             |
|------------------------------|-----------------------------|
| (A) by using style attribute | (B) by using size attribute |
| (C) by using link attribute  | (D) by using font attribute |

d. What is the purpose of DOM?

- (A) Viewing the XML Document
- (B) Accessing the XML Document Elements
- (C) Transforming the XML Document to other format
- (D) Conversion of XML to PDF

e. The CDATA occurs \_\_\_\_\_ of XML document.

- |                       |                     |
|-----------------------|---------------------|
| (A) only at the top   | (B) only at the end |
| (C) only after prolog | (D) anywhere        |

f. The browser window is a mutable object that can be addressed by java code. The open() method

- |                           |                      |
|---------------------------|----------------------|
| (A) opens a new window    | (B) opens a new page |
| (C) opens a new hyperlink | (D) opens a site     |

- g. What is the purpose of `#!/usr/bin/perl -w`
- (A) It is a commented line
  - (B) It is a prolog of perl script
  - (C) It is a mandatory line but perl interpreter will ignore it.
  - (D) It invokes perl interpreter.
- h. A PHP pieces of code in files which act as libraries that can be included in any script by using the command
- (A) `require(file)`
  - (B) `import(file)`
  - (C) `include(file)`
  - (D) `load(file)`
- i. What is the purpose of `ucfirst(string)` in PHP
- (A) return a copy of the string with the first character converted to upper case
  - (B) return a copy of the string with the characters converted to upper case
  - (C) returns a copy of the string with the first character of each word converted to upper case.
  - (D) return a copy of the string with the last character to lower case.
- j. Which HTML tag is used to setup link between HTML Page and CSS file.
- (A) `<body>` tag
  - (B) `<link>` tag
  - (C) `<li>` tag
  - (D) `<meta>` tag

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

- 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>`
- (2+6)**
- b. Write a HTML document which contains a list of product name. Each product name will have a hyperlink to indicate detail about product. How HTML form validation is done. **(6+2)**
- Q.3** a. Describe the different ways that styles can be added to a page. What is stylesheet class? What do you mean by cascading Styles? **(4+2+2)**
- b. Write a HTML page and a stylesheet 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. **(3+5)**
- b. Discuss about String manipulation functions and Math Library in JavaScript. **(4+4)**

- Q.5** a. What are the benefits of using the browser status bar to pass messages to the user? (8)
- b. Describe briefly the Rollover Buttons with suitable examples. (8)
- Q.6** a. What is scalar in perl? Discuss about the functions which operate on scalars.
- |                 |                 |       |
|-----------------|-----------------|-------|
| (i) substr ( )  | (ii) uc ( )     |       |
| (iii) chomp ( ) | (iv) chop ( )   |       |
| (v) lc ( )      | (vi) length ( ) | (2+6) |
- b. Write a perl program for displaying all elements of array. Discuss about functions which operate on Array. (2+2)
- c. Write a perl program for displaying all elements of Hash. Discuss about functions which operate on Hash. (2+2)
- Q.7** a. What is CGI scripting? Use CGI pm to write a script which returns an empty HTML page. (8)
- b. Explain the methods of tracking the users with hidden data. (8)
- Q.8** a. What are the advantages of developing web based software in PHP? Write a PHP script for establishing connection with MYSQL database server. Assume that database server is in your local machine. (3+3)
- b. Write a HTML form and PHP script for developing user authentication system (10)
- Q.9** a. Explain XML in detail. What are Internal Entity in XML? Explain the techniques used to do XML validation (2+3+3)
- b. What is DTD and schema? Write an example XML document and DTD. (2+3+3)