UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2012/2013 – 2nd Year Examination – Semester 3

IT3504: Web Development Techniques
Part 1: Multiple Choice Question Paper

3rd March, 2013
(ONE HOUR)

<u>Important Instructions :</u>

- The duration of the paper is **1 (one) hour.**

- The medium of instruction and questions is English.

- The paper has **30 questions** and **7 pages**.

- All questions are of the MCQ (Multiple Choice Questions) type.

- All questions should be answered.

- Each question will have 5 (five) choices with <u>**one or more**</u> correct answers.

- All questions will carry equal marks.

- There will be a penalty for incorrect responses to discourage guessing.

- The mark given for a question will vary from 0 to +1 (*All the correct choices are marked & no incorrect choices are marked*).

- Answers should be marked on the special answer sheet provided.

- Note that questions appear on both sides of the paper.
  If a page is not printed, please inform the supervisor immediately.

- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. **Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.**

1) Identify the correct statement(s) regarding 3 tier architecture.

> (a) Presentation tier identifies and makes logical decision to the data .
> (b) The logic tier performs all necessary calculation and evaluation of the data.
> (c) Database tier handles all data retrievals based on given criterias.
> (d) Presentation tier interprets data into a user understandable format.
> (e) Database tier coordinates the application process commands.

2) Select the correct statement(s) about IPV4/IPV6 from the following.

> (a) Requests made from a IPV4 host cannot be served from a server with a IPV6 address.
> (b) Domain names cannot be mapped to a corresponding IPV6 address.
> (c) An IPV6 address is written in decimal numbers.
> (d) There is no IP NAT in IPV6.
> (e) Tunneling is a technique used by IPV4 clients to access IPV6 services.

3) Identify the correct HTML code for the following browser rendered list.

> 1.   Option One
> 2.   Option Two
> 3.   Option Three

```
(a) <dl><li> Option One</li><li> Option Two</li><li> Option Three</li></dl>
(b) <tr><td> Option One</td><td> Option Two</td><td> Option Three</td></tr>
(c) <ol><li> Option One</li><li> Option Two</li><li> Option Three</li></ol>
(d) <ul><li> Option One</li><li> Option Two</li><li> Option Three</li></ul>
(e) <nl><li> Option One</li><li> Option Two</li><li> Option Three</li></nl>
```

4) Identify the correct statements regarding well known server ports

> (a) HTTPS connections most commonly use the server port 443.
> (b) HTTPS connections most commonly use the server port 53.
> (c) HTTP connections most commonly use server port 80.
> (d) The port 143 most commonly use by SSL to provide endpoint authentication.
> (e) The CSS most commonly use server port 55 to establish connections.

5) The correct HTML code for inserting an image with height and width of 42 pix is

```
(a) <image src="image.gif"height="42" width="42"> <image/>
(b) <img height="42" width="42">image.gif</img>
(c) <image href="image.gif height="42" width="42">
(d) <img href="image.gif height="42" width="42">
(e) <img src="image.gif" height="42" width="42">
```

Consider the code given below when answering questions 6 ,7 and 8

```
<html><head><style type="text/css">
        <!--
            .style1 {color: #00FF00; font-size: 18px;}
            .style2 {color: #0000FF;font-size: 14px;}
            .style3 {color: #FF0000;font-size: 14px;}
            .style4 {color: #FF00FF;font-size: 16px;}
            .style5 {font-size: 24px ; font-weight: bold;}
        --></style></head>
    <body>
        <h1 class="style1">Option 1</h1>
        <h3 class="style2"> Option 2</h3>
        <h4 class="style3"> <p class="style5"> Option 3</p></h4>
        <h2 class="style5"> Option 4</h2>
        <h5 class="style4">Option 5</h5>
    </body>
</html>
```

6) What is the colour of "Option 2"?

(a) Red
(b) Green
(c) Blue
(d) Black
(e) Magenta

7) What is the size of "Option 3"?

(a) Default size
(b) Size 16px
(c) Size 24px
(d) Size 14px
(e) Size 18px

8) Which block(s) of text is/are in size 14?

(a) Option 1
(b) Option 2
(c) Option 3
(d) Option 4
(e) Option 5

9) Which of the following is/are correct regarding HTTPS?

(a) HTTPS cannot be used without dedicated hardware encryption units.
(b) HTTPS uses SSL over HTTP connections.
(c) HTTPS provides end to end encryption from user to server to provide secure data transmission.
(d) HTTPS requires PKI which the user needs to install/acknowledge the security certificate.
(e) HTTPS cannot protect users from Man-in-the-middle attack.

10) Which of the following represent(s) the correct way of inserting a meta tag?

(a) <meta name="keywords" content="BIT, WWW, web, HTML">
(b) <meta name="keywords" values ="BIT, WWW, web, HTML" />
(c) <meta> name="keywords" content="BIT, WWW, web, HTML"</meta>
(d) <meta> name="keywords" values ="BIT, WWW, web, HTML"</meta>.
(e) <meta name="keywords" content ="BIT, WWW, web, HTML"/meta>.

11) Identify the correct statement(s) regarding JavaScript

(a) JavaScript is a loosely typed language.
(b) JavaScript variables are case sensitive.
(c) JavaScript is a server-side scripting language.
(d) JavaScript is a client-side scripting language.
(e) JavaScript cannot contain multi-line comments.

12) Which of the following is/are correct ?

(a) Dreamviewer is a WYSIWYG HTML editor.
(b) Joomla is a CMS used to manage web content.
(c) Microsoft Frontpage is a Text-based HTML editor .
(d) Wordpress is a Content Management System (CMS) based on PHP and MySQL.
(e) Moodle is a PHP Web application development framework.

Consider the following JavaScript code when answering questions 13 to 16

```
<script language="JavaScript" type="text/JavaScript">
<!--
top:
     for (x=8; x>6; x--) {
       for (y=2; y<5; y++) {
        for (z=3 ;z<8;z++){
             document.write(y);
             document.write(z);
             if (z==5) break top;
             }
         }
      }
-->
</script>
```

13) The final value of x is

(a) 5.
(b) 8.
(c) 6.
(d) 7.
(e) 3.

14) The final value of y is

(a) 1.
(b) 2.
(c) 3.
(d) 5.
(e) 7.

15) The final value of z is

(a) 1.
(b) 2.
(c) 3.
(d) 5.
(e) 7.

16) The final output on the page is.

(a) 827364.
(b) 123123.
(c) 323335.
(d) 232425.
(e) Error.

Consider the following JavaScript code to answer Questions 17 to 19.

```
var txt01="Hello World !";
var txt02='2013';
txt02=txt01+13;
document.write(txt02.length);
```

17) What is the value of txt01?
- (a) Hello World!
- (b) Hello World!2013
- (c) 2013
- (d) Hello World !13
- (e) Hello World 13

18) What is the value of txt02?
- (a) Hello World!
- (b) Hello World!2013
- (c) 2013
- (d) Hello World!13
- (e) Hello World 13

19) What is the value display on page?
- (a) 13
- (b) 14
- (c) 2013
- (d) 0
- (e) 12

20) Which of the following is/are core attributes as defined in HTML?
- (a) title
- (b) form
- (c) name
- (d) dir
- (e) script

21) Which of the following represent(s) the correct syntax of an anchor tag?
- (a) BIT website
- (b) <link="http://bit.ucsc.cmb.ac.lk ">BIT website
- (c) BIT website
- (d) BIT website
- (e) <a> http://bit.ucsc.cmb.ac.lk

22) Which of the following is/are responsible for defining the standards for HTML
- (a) IETF
- (b) IEEE
- (c) ISOC
- (d) W3C
- (e) BCS

Consider the following PHP code to answer question 23 to 26

```php
<?php
    $Mystring = "0812345 Predeep Jayantha 872462523V";
    echo $Mysrting ;
    $strarr = explode(" ",$Mystring);
     foreach($strarr as $k => $Myw){
        if(is_numeric($Myw)){
                $a = $Myw ;
                echo $a.' ';
          }else{
                switch ($k){
                    case 1:
                        $b = $Myw;
                         break;
                    case 2:
                         $c = $Myw;
                         break;
                    case 3:
                         $d = $Myw;
                          break;
                }
            }
        }
   $c=$c.' '.$b;
   echo $d.' '.$c;
 ?>
```

23) What is the value of $d?

```
(a) 0812345
(b) Predeep
(c) Jayantha
(d) 872462523V
(e) Predeep Jayantha
```

24) What is the value of $a?

```
(a) 0812345
(b) Predeep
(c) Jayantha
(d) 872462523V
(e) Predeep Jayantha
```

25) What is the value of $c?

```
(a) 0812345
(b) Predeep
(c) Jayantha Predeep
(d) Jayantha
(e) Predeep Jayantha
```

26) What is the output on the screen?

```
(a) 0812345 Predeep Jayantha 872462523V 872462523V Jayantha
(b) 0812345 Predeep Jayantha 872462523V Jayantha Predeep
(c) Jayantha Predeep 0812345 Predeep Jayantha 872462523V
(d) 0812345 872462523V Jayantha Predeep
(e) 0812345 Predeep Jayantha 872462523V
```

27) Identify the correct statement(s) from among the statements given bellow.
- (a) The World Wide Web Consortium is usually referred to in the shortened form WWWC.
- (b) Domain Name System is a method of translating numerical Internet addresses to a sequence of words, and vice versa.
- (c) Both XHTML and HTML can be used to design the structure of web pages.
- (d) Hypermedia is an extension of the concept of hypertext to include cross referenced multimedia content.
- (e) IEEE is responsible for publishing RFC documents on the Internet.

Answer questions number 28 to 30 by considering the following PHP code

```
<html>
<body>
<?php
$x=6;
        while($x<=9)
        {
        for ($y=2; $y<=5; $y++)
            {
            $z=$x%$y;
            if ($z==3) echo $x." ".$y." ";
            }

        $x++;
        }
        echo $x." ".$y." ".$z." ";
?>
</body>
</html>
```

28) What is the final value of $x?

- (a) 3
- (b) 2
- (c) 10
- (d) 5
- (e) 7

29) What is the final value of $y?

- (a) 8
- (b) 2
- (c) 5
- (d) 6
- (e) 7

30) What is the final value of $z?

- (a) 3
- (b) 2
- (c) 6
- (d) 4
- (e) 7

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