



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2013/2014 – 2nd Year Examination – Semester 3

IT3504: Web Development Techniques

PART 1 - Multiple Choice Question Paper

**2nd March, 2014
(ONE HOUR)**

Important Instructions :

- The duration of the paper is **1 (one) hour**.
- The medium of instruction and questions is English.
- The paper has **25 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 **one or more** 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) Select the correct HTML code(s) which will give the list output given below.

1. Kalpa
2. Chinthaka
3. Amila

- (a) `<dl><li;1>Kalpa<li;2> Chinthaka <li;3> Amila </dl>`

(b) `<tr><td> Kalpa</td><td> Chinthaka </td><td> Amila </td></tr>`

(c) ` Kalpa Chinthaka Amila `

(d) ` Kalpa Chinthaka Amila `

(e) `<nl> Kalpa Chinthaka Amila </nl>`

2) Which of the following statement(s) is/are true ?

- (a) A specific site can have both IPV4 and IPV6 addresses simultaneously.

(b) IPV6 and corresponding IPV4 address are mapped by DNS server.

(c) An IPV6 address is broken in to 8 hexadecimal numbers.

(d) IPV6 addresses are represented as decimal numbers between 0 and 255 separated by dots.

(e) A web site always requires a unique IPV4 or IPV6 address.

3) Consider the following JavaScript code.

```
<script language="JavaScript" type="text/JavaScript">
<!--
var x=55+"5";
document.write(x);
-->
</script>
```

What is/are the output(s) of this code?

- (a) 5

(b) 55

(c) 60

(d) 555

(e) 50

4) Which of the following statement(s) is/are true?

- (a) HTTPS is used in sites which require secure information transactions.

(b) SSH connections use the server port 8080 by default.

(c) SSL provides secure end to end encrypted communications over the Internet.

(d) HTTPS connections use the server port 443 by default.

(e) FTP is a secure way to upload web content to servers.

5) Which is/are the correct statement(s) regarding JavaScript?

- (a) JavaScript is a tightly typed language.

(b) JavaScript is a client-side Scripting language.

(c) JavaScript variables are not case sensitive.

(d) JavaScript can be used as a server-side and client-side scripting language.

(e) You can use multi-line commenting in JavaScript.

Answer questions number 6 to 9 by considering the following PHP code

```
<html>
<body>
<?php
$a=40;
    while ($a<=45)
    {

        for ($b=3; $b<=6; $b++)
        {
            $c=$a%$b;
            if ($c==5)
            {
                $d=$a*$b;
            }
        }
        $a++;
    }
    echo $a." ".$b." ".$c." ".$d;
?>
</body>
</html>
```

6) What is/are the final value(s) of \$a?

- (a) 40
- (b) 42
- (c) 46
- (d) 45
- (e) 43

7) What is/are the final value(s) of \$b?

- (a) 3
- (b) 8
- (c) 7
- (d) 8
- (e) 4

8) What is/are the final value(s) of \$c?

- (a) 9
- (b) 3
- (c) 6
- (d) 8
- (e) 4

9) What is/are the final value(s) of \$d?

- (a) 240
- (b) 276
- (c) 270
- (d) 246
- (e) 336

10) What is/are the correct HTML code(s) for inserting an image with an alternative text?

- (a) `<image src="MyImg.jpg" ,alt:"My Image one"/>`
- (b) ``
- (c) `<image href="MyImg.jpg" alt= "My Image one" />`
- (d) ``
- (e) `MyImg.jpg < alt= "My Image one"/>`

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

- (a) `<meta name="keywords" values=HTML, CSS, XML, XHTML, JavaScript>`
- (b) `<meta name=description ; content=BIT IT3504>`
- (c) `<meta name="author" content="UCSC-BIT">`
- (d) `<meta> name="keywords" values ="BIT, WWW, web, HTML" </meta>`
- (e) `<meta http-equiv="refresh" content="60">`

12) Which of the following statement(s) is/are true?

- (a) MSFrontPage is a WYSIWYG HTML editor.
- (b) Microsoft Outlook is a Text-based HTML editor.
- (c) WordPress is a CMS used to manage web content.
- (d) PHP is a technology used for developing client side dynamic content.
- (e) Moodle is a PHP based Web application development framework.

13) Which of the following port(s) is/are used by apache tomcat server by default?

- (a) 80
- (b) 443
- (c) 8080
- (d) 5120
- (e) 53

Consider the code given below when answering questions 14 to 17.

```
<!DOCTYPE html>
<html>
<head>
  <style>
    <!--
      .sty01{color: #00FF00;font-style:italic;font-size: 20px;}
      .sty02 {background-color:rgba(255,0,0,0.5); font-size: 12px;}
      .sty03 { background-color:rgba(0,0,255,0.2);color: #FF0000;font-size:
10px;}
      .sty04 {color: #FF00FF;font-size: 12px; background-
color:rgba(0,255,0,0.2) }
    -->
  </style>
</head>

<body>
<h1 class="sty01">Text block01</h1>
<h3 class="sty02"> Text block02</h3>
<h4 class="sty03"> Text block03<p class="sty04"> Text block04</p></h4>
<h2 class="sty04"> Text block05</h2>
</body>
</html>
```

14) What is/are the colour(s) of text in “Text block01”?

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

15) What is/are the size(s) of text in “Text block02”?

- (a) Default size.
- (b) Size 16px.
- (c) Size 10px.
- (d) Size 14px.
- (e) Size 18px.

16) What is/are the colour(s) of text in “Text block02”?

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

17) Which text block(s) is/are in size 12px?

- (a) Text block01.
- (b) Text block02.
- (c) Text block03.
- (d) Text block04.
- (e) Text block05.

18) Which of the following statement(s) is/are true?

- (a) AJAX cannot update data displayed on a web page to the user without reloading the whole page.
- (b) In Multi-tier architecture the Business logic is always implemented using client side scripting techniques.
- (c) The WYSIWYG type editors cannot be used in creating dynamic web pages as they do not support CSS.
- (d) Client side scripts can be used as the first level data validation to eliminate typing errors.
- (e) The most widely used multi-tier architecture is referred to as 2-tier architecture where it consists of Presentation and Business logic layers.

19) Which of the following is/are core attribute(s) as defined in HTML?

- (a) Id
- (b) Css
- (c) Class
- (d) Body
- (e) Title

Consider the following JavaScript code when answering questions numbers 20 to 25.

```
<script language="JavaScript" type="text/JavaScript">
<!--
var k=2;
topLA:
  for (i=7; i>5; i--)
  {
    while ( k<=5){
      k++ ;
      for (j=2; j<=3; j++)
      {
        document.write(i);
        document.write(j);
        if (k==4){ break topLA;}
      }
    }
  }
  document.write(k)

-->
</script>
```

20) What is/are the final value(s) of i ?

- (a) 5
- (b) 7
- (c) 6
- (d) 4
- (e) 3

21) What is/are the final value(s) of j?

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

22) What is/are the final value(s) of k?

- (a) 1
- (b) 4
- (c) 3
- (d) 5
- (e) 7

23) What is/are the final output(s) of this code?

- (a) 5375.
- (b) 723623.
- (c) 72724.
- (d) 7273724.
- (e) 5352724.

24) What would be the final output/s if “var k=2” was replaced with “var k=3”?

- (a) 537.
- (b) 723.
- (c) 724.
- (d) 727.
- (e) 534.

25) What would be the final value(s) of i if “var k=2” was replaced with “var k=3”?

- (a) 7.
- (b) 3.
- (c) 4.
- (d) 6.
- (e) 5.
