



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY ( EXTERNAL)

*Academic Year 2014/2015 – 2<sup>nd</sup> Year Examination – Semester III*

## ***IT3505 – Web Application Development II***

***PART I - Multiple Choice Question Paper***

***1<sup>st</sup> March, 2015***

***(ONE HOUR)***

### **Important Instructions :**

- The duration of the paper is **1 (one) hour**.
- The medium of instruction and questions is English.
- The paper has **20 questions** and **8 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 (*All the incorrect choices are marked & no correct choices are marked*) 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) Which of the following file extension a typical HTML page with embedded PHP scripts should have?

(a) .html	(b) .xml	(c) .htm
(d) .php	(e) Any extension	

- 2) In web programming, the acronym AJAX Stands for

(a) Another Java and XML Library. (b) Another Java Abstraction for X-Windows. (c) Abstract JSON and XML. (d) Asynchronous Java and XML Library. (e) Asynchronous Javascript and XML.
--

- 3) Which of the following commands can be used to compile a Java applet named "test" with the proper file extension.

(a) javac test.java (b) appletviewer test.html (c) javac test (d) appletviewer test.java (e) java test
--

- 4) Consider the following tags.

i) `< php >` and `< php >` respectively.  
ii) `< ?` and `php?>` respectively  
iii) `<?`  and `>` respectively.  
iv) `<?php` and `?>` respectively

Which of the above tags can be used to embed a PHP script in an HTML document?

(a) ii) and iv) only	(b) iii) and iv) only
(c) i) and iv) only	(d) iv) only
(e) i) only	

5) Consider the following PHP statements.

- i) `int $no1,no2 = 2,3;`
- ii) `int no1 = 2; int no2 = 3;`
- iii) `$no1 = 2; $no2 = 3;`
- iv) `$no1, $no2 = 2,3;`

Which of the above statements will store the values 2 and 3 in the variables “no1” and “no2” respectively?

- |                       |                    |
|-----------------------|--------------------|
| (a) i) only           | (b) ii) only       |
| (c) iii) only         | (d) i)and ii) only |
| (e) iii) and iv) only |                    |

6) Consider the following PHP script.

```
<?php
a = 1;
b = 2;
echo "a/b" ;
?>
```

What would be the output of the script when it is executed?

- |         |                   |         |
|---------|-------------------|---------|
| (a) 0.5 | (b) 0             | (c) a/b |
| (d) 1/2 | (e) Error Message |         |

7) Consider the following PHP script.

```
<?php
$val1 = "4";
$val2 = "5";
print $val1+$val2;
?>
```

What would be the output of the script when it is executed?

- |        |                   |                   |
|--------|-------------------|-------------------|
| (a) 9  | (b) 4+5           | (c) \$val1+\$val2 |
| (d) 45 | (e) Error Message |                   |

- 8) Consider the following PHP script.

```
<?php
    $light= "red";
    switch ($light) {
        case "red":
            echo "Stop!!";
        case "yellow":
            echo "Get ready";
            break;
        case "green":
            echo "Go..";
    }
?>
```

What would be the output of the script when it is executed?

- |                         |                     |
|-------------------------|---------------------|
| (a) Stop!!              | (b) Stop!!Get ready |
| (c) Stop!!Get readyGo.. | (d) Stop!!Go..      |
| (e) Error Message       |                     |

- 9) Consider the following PHP script.

```
<?php
$name1 = "Nimal";
$name2 = "Kamal";
echo "$name1"."$name2";
?>
```

What would be the output of the script when it is executed?

- |                    |                   |                  |
|--------------------|-------------------|------------------|
| (a) \$name1\$name2 | (b) Nimal\$name2  | (c) \$name1Kamal |
| (d) NimalKamal     | (e) Error Message |                  |

- 10) Which one of the following is a syntactically valid definition of a PHP function?

- |                                       |
|---------------------------------------|
| (a) function {echo "123";}            |
| (b) function test{echo "123";}        |
| (c) void function test{echo "123";}   |
| (d) function test(\$a){echo "123";}   |
| (e) void function test(){echo "123";} |

- 11) Consider the following PHP script.

```
<?php
function foo() {
    static $count1 = 0;
    $count2 = 0;
    echo $count1++; echo ++$count2;
}
foo();
foo();
?>
```

What would be the output of the script when it is executed?

- |          |          |          |
|----------|----------|----------|
| (a) 0011 | (b) 0111 | (c) 0101 |
| (d) 1011 | (e) 1111 |          |

- 12) Consider the following PHP script.

```
<?php
$x = 2*(3-1)+ 4/2**2;
echo $x;
?>
```

What would be the output of the script when it is executed?

- |        |       |       |
|--------|-------|-------|
| (a) 8  | (b) 6 | (c) 5 |
| (d) 36 | (e) 0 |       |

- 13) Which of the following PHP statements is/are syntactically correct?

- |                           |
|---------------------------|
| (a) for(){ echo "123";}   |
| (b) for(;){ echo "123";}  |
| (c) for(;;){ echo "123";} |
| (d) for(;;){}             |
| (e) for(;;);              |

14) Which of the following statements about PHP statements is/are correct?

- (a) A connection to a MySQL database can be established by using the PHP command **mysqli\_connect(host,username,password,dbname);**
- (b) A connection to a MySQL database can be established by using the PHP command **mysqli\_open(host,username,password,dbname);**
- (c) A connection to a MySQL database can be established by using the PHP command **mysqli\_link(host,username,password,dbname);**
- (d) An SQL query can be executed on a MySQL database by using the PHP statement `mysqli_query(mySqlConnection,SQLQuery);`
- (e) An SQL query can be executed on a MySQL database by using the PHP statement `mysqli_execute(mySqlConnection,SQLQuery);`

15) Which of the following statements about JQuery is/are correct?

- (a) JQuery is a JavaScript library.
- (b) JQuery is a JSON library.
- (c) JQuery uses CSS selectors to select elements in HTML pages.
- (d) JQuery uses the symbol **\$** as a shortcut for JQuery.
- (e) JQuery is a library for server side scripting.

16) Which of the following JQuery statements will return all **div** elements in an HTML document?

- (a) `var divs = $(div);`
- (b) `var divs = jQuery("div");`
- (c) `var divs = #("div");`
- (d) `var divs = $("div");`
- (e) `var divs = divs();`

17) Which of the following statements is/are true ?

- (a) `$_POST` is a PHP global variable.
- (b) The `$_GET` variable can be used by a PHP program to retrieve data from an HTML form, submitted by using the “get” method.
- (c) When the “post” method is used to submit an HTML form, the form variables become visible in the URL.
- (d) When the “get” method is used to submit an HTML form, the form variables become visible in the URL.
- (e) In a PHP program a file named “data.txt” can be opened for reading data by using the command `open(“data.txt”,“r”);`

18) Which of the following statement about PHP frameworks is/are correct?

- (a) JQuery is a PHP web application framework.
- (b) CodeIgniter is a PHP web application framework.
- (c) JQuery is based on the MVC design pattern.
- (d) CodeIgniter is based on the MVC design pattern.
- (e) In a typical CodeIgniter installation, the PHP script index.php serves as the front controller, initializing the base resources needed to run CodeIgniter.

19) Consider the following PHP script.

```
<?php
class Student{
    private $id = null;
    public $name = null;

    function __construct($name,$id=0){
        $this->id = $id; $this->name = $name;
    }
    public function set_id($id){
        $this->id = $id;
    }
}
?>
```

Which of the following PHP codes will create a PHP object named \$x with values for its attributes \$id and \$name as 1 and "Nimal" respectively?

- (a) \$x = new Student();
- (b) \$x = new Student("Nimal")
- (c) \$x = new Student("Nimal",1)
- (d) \$x = new Student("Nimal"); \$x->set\_id(1);
- (e) \$x = new Student("Nimal"); \$x->id = 1;

20) Consider the following HTML document:

```
<!DOCTYPE html>
<html>
<body>
<p id="title">My name</p>
<p id="myID"></p>
<script>
var x = document.getElementById("title");
document.getElementById("myID").innerHTML = x.innerHTML + " is
Kamal" ;
</script>
</body>
</html>
```

What will be the output if the above HTML document is rendered through a web browser?

- (a) My name
- (b) is Kamal
- (c) Kamal  
My name
- (d) My name is Kamal
- (e) My name  
My name is Kamal