UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2015/2016 – 2ⁿᵈ Year Examination – Semester III

IT3505 – Web Application Development II

PART I - Multiple Choice Question Paper

8ᵗʰ May, 2016

(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 **10 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 statements about PHP programming language is/are true?

(a) It is a server side programming language.

(b) It is a client side programming language.

(c) It is a free software.

(d) It is a free format language.

(e) PHP scripts in an HTML document should be coded within <php> and </php> tags.

2) Which of the following PHP statements is/are syntactically valid?

(a) define("constant", "This is a constant");

(b) define constant = "This is a constant";
(c) $constant = "This is a constant";
(d) constant = "This is a constant";
(e) $constant = 'This isn\'t valid';

3) Which of the following PHP scripts is/are syntactically valid?

(a)
```php
<?php
 if(true){
   echo "True";
 }
?>
```

(b)
```php
<?php
 if(2 != 3)
   echo "In if part";
 else
   echo "In else part";
?>
```

(c)
```php
<?php
 if 2 != 3
  echo "In if part";
 else
  echo "In else part";
?>
```

(d)
```php
<?php
 if(2 != 3){
  echo "In if part";
 } else {
  echo "In else part";
 }
?>
```

(e)
```php
<?php
 If 2 != 3{
   echo "In if part";
 } else {
   echo "In else part";
 }
?>
```

4) Consider the following PHP script:

```php
<?php

    //
    echo "Hello";
    //echo "World";
?>
```

What is the output of the above PHP Script?

(a) Hello	(b) World
(c) Hello World	(d) HelloWorld
(e) Hello World	

5) Which of the following PHP scripts produce(s) the output "**Nice Day**"?

(a)	(b)

``php
<?php
$a = "Nice";
$b = "Day";
echo $a . $b;
?>
``
	``php
	<?php
	/*
	$a = "Nice";
	$b = "Day";
	echo $a . $b;
	*/
	?>
	``

(c)	(d)

``php
<?php
$a = "Nice";
$b = " Day";
echo $a , $b;
?>
``
	``php
	<?php
	$a = "Nice";
	$b = "Day";
	echo $a ," ", $b;
	?>
	``

(e)	

``php
<?php
$a = "Nice";
$b = " Day";
echo $a + $b;
?>
``	

6) Which of the following PHP scripts print(s) the value 3 when executed?

(a)
```
<?php
echo 7/4;
?>
```

(b)
```
<?php
echo 7%4;
?>
```

c)
```
<?php
echo -1*3+12/2;
?>
```

(d)
```
<?php
echo b11;
?>
```

(e)
```
<?php
echo 0b11;
?>
```

7) Consider the following PHP declaration.

```
$a = array("abc",array(1,2,3),"cde","def");
```

Which of the following statements is/are true?

(a) The value of $a[3] is the string **cde.**   b) The value of $a[3] is the string **def.**

(c) The value of count($a) is 4.   d) The value of count($a) is 6.

(e) The value of count($a) is 0.

8) Consider the following PHP script.

```
<?php
    $light = array("red","yellow","green");
    $colourNo= 1;
    switch ($light[1]) {
    case "red":
        echo "Stop!! ";
         break;
    case "yellow":
        echo "Get ready ";
    case "green":
        echo "Go.. ";
        break;
    default:
        echo "Color not defined";
    }
?>
```

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

(a) Stop!!   (b) Color not defined

(c) Go..   (d) Get ready

(e) Get ready Go..

9) Which of the following PHP function definitions is/are syntactically correct?

(a)
```
function f1(){
   echo "hello";
}
```

(b)
```
function f1(){
   echo $abc;
}
```

(c)
```
function f1($abc){echo $abc;}
```

(d)
```
function f1($abc,abc){
   echo $abc;
}
```

(e)
```
void function f1($abc,$_abc){
   echo $abc,$_abc;
}
```

10) Consider the following PHP function definition:

```
function f1($name, sex="m",$age=0){
   echo $name,"<br>",$sex,"<br>",$age;
}
```

Which of the following function calls are syntactically correct?

(a) f1()
(b) F1("saman");
(c) F1("saman","anura","gamini");
(d) f1("kmala","f",20,13);
(e) f1("kmala","f",20+13);

11) Consider the following PHP statement;

$f = fopen("mydata.txt","a");

Which of the following statements is/are true about this statement?

> (a) It always creates a file named "mydata.txt".
>
> (b) It returns the Boolean value "TRUE" if the fopen() is successful.
>
> (c) It returns the Boolean value "FALSE" if the fopen() fails.
>
> (d) If the fopen() is successful, the file pointer is always placed at the beginning of the file.
>
> (e) If the fopen() is successful, the file pointer is always placed at the end of the file.

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

> (a) Cookies typically save data at the user's (client) computer.
>
> (b) Cookies typically save data at the web server.
>
> (c) Most popular Web Browsers provide facilities to enable or disable Cookies.
>
> (d) In PHP scripts, data stored by Cookies can be accessed by using the global array $_POST.
>
> (e) The PHP command **setcookie("abc","def")** sends a Cookie with the name **def** to the browser.

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

> (a) Web Becons can be used to find out whether a user has accessed the content of a web page or not.
> (b) Web Becon is another name for Cookie.
> (c) Web Becons can be implemented only by using JavaScript.
> (d) Web Becons cannot be implemented through images.
> (e) Web Becons can store data only at the client's machine as Cookies.

14) Which of the following statements about HTML Document Object Model (DOM) is/are correct?

> (a) It is an application programming interface for valid HTML.
> (b) It is a language dependent interface.
> (c) It defines the logical structure of HTML documents.
> (d) A JavaScript program must always be written to create a DOM of an HTML document
> (e) It is organized as a tree of objects.

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

      (a) JQuery is a JavaScript library.
      (b) JQuery is a Java library.
      (c) JQuery is a PHP library.
      (d) JQuery $('#id') selector and Javascript document.getElementById('id') produce the same result.
      (e) The JQuery selector #('div #id01') select all HTML elements with **div** tag and id **id01**.

Questions 16) and 17) are based on the following HTML code. The dotted line indicates a missing line of code.

```
<!DOCTYPE html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js">
</script>
<script>
function add(){
  value1 = document.getElementById("value1").value;
  value2 = document.getElementById("value2").value;
  -------------------------------------------------------------
  document.getElementById("resultSection").innerHTML =
                        "The result is = " + sum
}
</script>
<body>
<h1>Simple page</h1>
<div id = "formSection">
<form name="myForm" action="form01.php" method="POST">
Enter value 1:
<input type="text" id="value1" value ="0" class = "number"/><br/>
Enter value 2:
<input type="text" id="value2" value = "0" class="number"/><br/>
</div>
<div id="resultSection" class="result"></div>
<button id="button1" type="button" class="button" onclick = "add()">Add
Numbers </button>
</form>
</body>
</html>
```

16) Which of the following statements is/are correct about the code?

(a) When the page is rendered, there would be a single text box on the page.
(b) When the page is rendered, there would be two text boxes on the page.
(c) When the page is rendered, there would be a button with the label **Add Numbers** on the page.
(d) When the page is rendered, there would be a button with the label **button** on the page.
(e) When the user clicks on the button, the page would be submitted to the server.

17) Which of the following lines should replace the dotted line to print the sum of the two values entered at the text boxes?

(a) sum = $_POST["value1"] + $_POST["value2"]
(b) sum = value1 + value2;
(c) sum = int(value1) + int(value2);
(d) sum = parseInt(value1) + parseInt(value2);
(e) sum = $_POST[value1] + $_POST[value2]

18) Which of the following statements has/have the same effect as the statement

value1 = document.getElementById("value1").value;

(a) value1 = $("value1").value;
(b) value1 = $("value1").val();
(c) value1 = $("#value1").val;
(d) value1 = $("#value1").val();
(e) value1 = $("#value1").value;

Questions 19) and 20) are based on the following script. Assume that the name of this script file is "app.php".

```php
<html>
<body>
<h1>Simple application</h1>
<?php
if( (isset($_POST['name'])) and ($_POST['name'] != "")){
   $std = new Student($_POST['name'],$_POST['age']);
}
?>
<form name="myForm" action="app.php" method="POST">
name:
<input type="text" name="name"  value = ""/><br/>
age:
<input type="text" name="age"   value = "0"/><br/>
<input type="hidden" name="code" value="app01">
<input type="submit" value="Send" />
</form>
<?php

class Student{

     function __construct($name,$age){
             $f = fopen("data.txt","a");
             fwrite($f,$name.",".$age."\n");
             fclose($f);
     }
}

?>
</body>
</html>
```

19) Which of the following statements about the script is/are correct?

> (a) Each time a user clicks the button with the label **Send**, a new file with the name **data.txt** is created and a record is added to it.
> (b) Each time a user clicks the button with the label **Send**, a new record is appended to the text file with the name **data.txt.**
> (c) When a user clicks the button with the label **Send**, a script named **app.php** is executed.
> (d) The values of the text boxes on the page can be accessed at the server end by the respective PHP script by using the $_POST global array.
> (e) The hidden input value on the page **cannot** be accessed at the server end by the respective PHP script by using the $_POST global array.

20) Which of the following statements about the script is/are correct?

> (a) The class **Student** has a constructor method.
> (b) The method __**construct** in the class **Student** is executed every time an instance of the class is created.
> (c) The final effect of the script will not change when the statement
> ```
> $std = new Student($_POST['name'],$_POST['age']);
> ```
> is replaced with the new statement
> ```
> new Student($_POST['name'],$_POST['age']);
> ```
> (d) The final effect of the script will not change when the segment
> ```
> if( (isset($_POST['name'])) and ($_POST['name'] != "")) is
> ```
> replaced with the new segment
> ```
> if(($_POST['name'] != "")  and (isset($_POST['name'])))
> ```
> (e) The final effect of the script will not change when the statement
> ```
> $f = fopen("data.txt","a");
> ```
> is replaced with the new segment
> ```
> $f = fopen("data.txt","w");
> ```

****