

CpSc 4620/6620 Quiz #3

Name: _____

ID: _____

Question 1 (40 points): Multiple selection questions

- What does PHP stand for?
 - Private Home Page
 - Personal Home Page
 - Personal Hypertext Processor
 - PHP: Hypertext Preprocessor
- PHP scripts are surrounded by delimiters, which of the following is the correct format?
 - `<&> ... </&>`
 - `<script> ... </script>`
 - `<?php ... ?>`
 - `<?php> ... </?>`
- How do you write "Hello World" in PHP
 - `"Hello World";`
 - `echo "Hello World";`
 - `Document.Write("Hello World");`
 - `fprintf("Hello World");`
- All variables in PHP start with which symbol?
 - \$
 - &
 - *
 - %
- Which is the correct way to end a PHP statement?
 - .
 - `\r\n`
 - `</php>`
 - ;
- The PHP syntax is most similar to
 - VBScript
 - JavaScript
 - Perl and C
 - HTML
- In PHP you can use both single quotes (' ') and double quotes (" ") for strings.
 - True
 - False
- Include files must have the file extension ".inc".
 - True
 - False

9. What is the correct way to include the file "time.inc"?
- a. `<?php include file="time.inc";?>`
 - b. `<!-- include file="time.inc" -->`
 - c. `<?php include("time.inc"); ?>`
 - d. `<?php #include "time.inc"; ?>`
10. What is the correct way to create a function in PHP?
- a. `create myFunction()`
 - b. `function myFunction()`
 - c. `new_function myFunction()`
 - d. `new myFunction()`
11. What is the correct way to open the file "time.txt" as readable?
- a. `fopen("time.txt", "r");`
 - b. `fopen("time.txt", "r+");`
 - c. `open("time.txt", "read");`
 - d. `open("time.txt");`
12. PHP allows you to send emails directly from a script
- a. True
 - b. False
13. What is the correct way to connect to a MySQL database?
- a. `dbopen(host, username, password, dbname, port, socket);`
 - b. `mysqli_connect(host, username, password, dbname, port, socket);`
 - c. `mysqli_open(host, username, password, dbname, port, socket);`
 - d. `connect_mysqli(host, username, password, dbname, port, socket);`
14. What is the correct way to add 1 to the \$count variable?
- a. `$count++;`
 - b. `$count +=1;`
 - c. `++count;`
 - d. `count++;`
15. What is the correct way to add a comment in PHP?
- a. `*\..*`
 - b. `/*...*/`
 - c. `<comment>...</comment>`
 - d. `<!--...-->`
16. PHP can be run on Microsoft Windows IIS (Internet Information Server)
- a. True
 - b. False
17. In PHP, the die() and exit() functions do the exact same thing.
- a. False
 - b. True

18. Which one of these variables has an illegal name?
- a. \$myVar
 - b. \$my-Var
 - c. \$my_Var
 - d. \$_myVar
19. How do we identify web server?
- a. Using domain name
 - b. Using IP address
 - c. Using port 80
 - d. Using domain name/IP address and ports
20. The server side script directly input/output from/to web clients
- a. True
 - b. False

Question 2 (10 points): What is a web server? Briefly describe how a web client communicates with a web server.

A web server is a program that understands the HTTP protocol and generates appropriate responses. A web client uses HTTP protocol to “connect” to the web server and then send a “request” to the server. The web server reads the request and generates the “response”. The web client then interprets the response appropriately.

Question 3 (30 points): What will the following PHP scripts print out when they are executed through a command line interface (not Web page)? (3 points for each script, 30 total points)

```
<?php
    $_bool = FALSE;
    $_str = "foo";

    echo gettype($_bool);
    echo gettype($_str);

    if (is_string($_str)) {
        echo "String: $_str";
    }
?>
```

Answer:

booleanstringString: foo

```
<?php
    $foo = 'Bob';
    $bar = &$foo;
    $bar = "My name is $bar";
    echo $bar . "\n";
    echo $foo;
?>
```

Answer:

My name is Bob
My name is Bob

```
<?php
    function double($i) {
        return $i*2;
    }
    $b = $a = 5;
    $c = $a++;
    $e = $d = ++$b;
    $f = double($d++);
    $g = double(++$e);
    $h = $g += 10;
    echo $h;
?>
```

Answer:

24

```
<?php
    $arr = array(1, 2, 3, 4);
    foreach ($arr as &$value) {
        $value = $value * 2;
    }
    echo $value;
    unset($value);
    foreach ($arr as $value) {
        echo "\n";
        echo $value;
    }
    echo "\n";
?>
```

Answer:

8
2
4
6
8

```
<?php
    $arr = array('one', 'two', 'three', 'four', 'stop', 'five');
    while (list(, $val) = each($arr)) {
        if ($val == 'stop') {
            break;
        }
        echo "$val\n";
    }
?>
```

Answer:

one
two
three
four

```

<?php
    $i = 0;
    while ($i++ < 5) {
        echo "Outer<br />\n";
        while (1) {
            echo "Middle\n";
            while (1) {
                echo "This is inner\n";
                continue 3;
            }
            echo "This is middle. \n";
        }
        echo "This is outer. \n";
    }
?>

```

Answer:

```

Outer<br />
Middle
This is inner
Outer<br />
Middle
This is inner
Outer<br />
Middle
This is inner
Outer<br />
Middle
This is inner
Outer<br />
Middle
This is inner

```

```

<?php
    $i = 'X';
    for ($n=0; $n<5; $n++) {
        echo ++$i . "\n";
    }
?>

```

Answer:

```

Y
Z
AA
AB
AC

```

```
<?php
    function func1($string) {
        $string .= 'another string.';
    }
    function func2(&$string) {
        $string .= 'and another string.';
    }
    $str = 'This is a string, ';
    func1($str); echo $str;
    func2($str); echo $str;
?>
```

Answer:

This is a string, This is a string, and another string.

```
<?php
for ($n=0; $n<20; $n++) {
    switch ($n) {
        case 5:
        case 15:
            echo "At 5\n";
            break 1;
        case 10:
            echo "At 10 \n";
            break 2;
    }
}
?>
```

Answer:

At 5

At 10

```
<?php
function foo() {
    echo "In foo()\n";
}

function bar($arg = "") {
    echo "In bar(); argument was '$arg'.\n";
}

$func = 'foo'; $func();
$func = 'bar'; $func('test');

?>
```

Answer:

Outer
Middle
Inner
Outer
Middle
Inner

Question 4 (20 points): Please write a PHP script to display a multiplication table in a webpage in the following format:

9×9 Multiplication Table

1×1=1								
1×2=2	2×2=4							
1×3=3	2×3=6	3×3=9						
1×4=4	2×4=8	3×4=12	4×4=16					
1×5=5	2×5=10	3×5=15	4×5=20	5×5=25				
1×6=6	2×6=12	3×6=18	4×6=24	5×6=30	6×6=36			
1×7=7	2×7=14	3×7=21	4×7=28	5×7=35	6×7=42	7×7=49		
1×8=8	2×8=16	3×8=24	4×8=32	5×8=40	6×8=48	7×8=56	8×8=64	
1×9=9	2×9=18	3×9=27	4×9=36	5×9=45	6×9=54	7×9=63	8×9=72	9×9=81


```
<?php
    echo "<table style='border: 1px solid black'>";
    echo "<caption><b>9&times;9 Multiplication Table</b></caption>";
    for($i=1; $i<10; $i++){
        echo "<tr>";
        for($j=1; $j<= $i; $j++)
            echo "<td style='border: 1px solid black'>".$j."&times;".$i."="."$i*$j."</td>";
        for($k=$i+1; $k<10; $k++)
            echo "<td style='border: 1px solid black'> </td>";
        echo "</tr>";
    }
    echo "</table>";
?>
```