



Review Test Submission: Test 2 - Concepts of PHP

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Test	Test 2 - Concepts of PHP
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Results Displayed	Submitted Answers, Correct Answers, Feedback

Question 1

12 out of 12 points

Write a PHP script that performs the following functions:

1. Create an array of numbers called 'tempNumbers' which has following numbers : 11, 22, 55, 77, 66, 91, 100, 8. (1 marks)
2. Write code for inserting a value (i.e. 88) in the middle location of 'tempNumbers' array such that the contents of the array becomes as below: 11, 22, 55, 77, 88, 66, 91, 100, 8. (5 marks)
3. Find the total number of elements of the array and display. (1 marks)
4. Find the average value of the elements of the array and display. (1 marks)
5. Find the maximum value of the elements of the array and display. (1 marks)
6. 'sort' the elements of the array in descending order. (1 marks)
7. Use a 'foreach' loop to display the elements of the array. (2 marks)

Hints: You are allowed to use built-in array functions (E.g., max(), array_sum(), count())

Selected Answer:

```
$tempNumbers[] = array( 11, 22, 55, 77, 66, 91, 100, 8 );
for ( $i = 7; i > 4; i-- ) {
    $temp = $tempNumbers[i];
    $tempNumbers[i++] = $temp;
    $tempNumbers[i] == $tempNumbers[--i];
}
$tempNumbers[4] = [88];

$count = count($tempNumbers);
$sum = array_sum($tempNumbers);

$average = $sum / $total;

$max = max($tempNumbers);

sort($tempNumbers);
array_reverse($tempNumbers);

foreach($tempNumbers as $print){
    echo $print."<br>";
}
```

Correct Answer: [None]

Response Feedback: [None Given]

Question 2

2 out of 2 points

```
<?php

$somerar=0;
function addit () {
    $somerar=15;
    $somerar++ ;
}
addit ();
echo "somerar is $somerar";

?>
```

Selected Answer: somerar is 0

Correct Answer: somerar is 0

Question 3

1 out of 1 points

Which of these statements is true about PHP?

Selected Answer: Require exits the script if it cannot find the file to include



Correct Answer: Require exits the script if it cannot find the file to include



Question 4

2 out of 7 points

Use conditional for/while loop to draw the following pattern:

```
*
***
*****
*****
*****
*****
*****
*****
*****
```

Selected Answer:

```
for ($i = 0; i < 7; i++) {
    $star = 1;
    $amount = 0;
    while ($amount < $star) {
        echo "**";
        $amount+=1;
    }
    $star +=2;
    echo "<br>";
}
```

Correct Answer: [None]

Response Feedback: [None Given]

Question 5

2 out of 7 points

Use conditional loop statement to create the following table. Use the echo or print commands to draw the entire table. (The table <table>, the table's rows <tr></tr>, the tables columns <td></td>, and the contents inside the table cells.)(8 marks).

10	11
----	----

12	13
14	15
16	17
18	19

Selected Answer:

```
<table>
<?php
$num = 10;
for ($i = 0; i < 5; i++) {
echo "<tr>";
echo "<td>$num</ td>";
$num+=1;
echo "<td>$num</ td>";
$num=+1;
echo "</tr>";
}
?>
</table>
```

Correct Answer: [None]

Response Feedback: [None Given]

Question 6

0 out of 1 points

What is the correct way to include the file "time.inc" ?

Selected Answer:  `<?php include_file("time.inc"); ?>`


Correct Answer: `<?php require("time.inc"); ?>`




Question 7

1 out of 1 points

The PHP mechanism for defining what a class can do without specifying how it does it is called a(n) _____.

Selected Answer:  Interface

Correct Answer:  Interface

Question 8

2 out of 2 points

What is the output of the following PHP code?

```
<?php
function m_x_plus_b($m, $x, $b) {
    return $m*$x+$b;
}
$slope=1.5;
$x=2;
$b=3;
echo "y = ".m_x_plus_b($slope,$x,$b)."<br>";
?>
```

Selected Answer: y=6

Correct Answer: y=6

Question 9

1 out of 1 points

Include files must have the file extension ".inc"

Selected Answer: False

Correct Answer: False

Question 10

1 out of 1 points

How do you write "Hello World" in PHP

Selected Answer: echo "Hello World";

Correct Answer: echo "Hello World";

Question 11

1 out of 1 points

! represents which operator?

Selected Answer: NOT

Correct Answer: NOT


Question 12


1 out of 1 points

An array can be created using this code...

```
$myPeople[0] = 'justin';
```

```
$myPeople[1] = 'jessica';  
$myPeople[2] = 'jason';
```

Selected Answer:  True

Correct Answer:  True

Question 13

0 out of 1 points

In PHP, which would be the proper way within the class Artist to reference the static method count() that is defined in Artist?

Selected Answer:  \$this->count();

Correct Answer:  self::count();

Question 14

0 out of 2 points

What is the output of the following PHP code?

```
<?php  
  
function foo($my_string) {  
    echo "$"."my_string = $my_string<br>";  
}  
foo("foo is foo");  
Foo("Foo is foo");  
FoO("FoO is foo");  
FOO("FOO is foo");  
?>
```

Selected Answer: \$my_string = foo is foo



Correct Answer: \$my_string = foo is foo
\$my_string = Foo is foo
\$my_string = FoO is foo
\$my_string = FOO is foo



Question 15


2 out of 2 points

```
<?php  
  
$x=array("aaa","","ccc","ddd","","");  
$y=array_unique($x);
```

```
echo count($x) . "," . count($y);
```

```
?>
```

Selected Answer:  6,4

Correct Answer:  6,4

Question 16

3 out of 3 points

What is the output of the following PHP code?

```
<?php
class Programmer {
    // Class Properties
    var $name;      // Programmer's name
    var $experience; // How long has been programming
    var $lang;      // Favorite Language
    var $education; // Highest degree earned
    // Class Constructor - function same name as the class
    function Programmer($name, $experience, $lang, $education) {
        $this->name=$name;
        $this->experience=$experience;
        $this->lang=$lang;
        $this->education=$education;
    }
    // Getter/Setter functions for all properties in the class
    function get_name() {
        return $this->name;
    }
    function set_name($newname) {
        $this->name = $newname;
    }
    function get_experience() {
        return $this->experience;
    }
    function set_experience($newexperience) {
        $this->experience = $newexperience;
    }
    function get_lang() {
        return $this->lang;
    }
    function set_lang($newlang) {
        $this->lang = $newlang;
    }
    function get_education() {
        return $this->education;
    }
    function set_education($neweducation) {
        $this->education = $neweducation;
    }
}
// Utility data dump function
```

```

function output() {
    echo "Programmer Name: ".$this->name."<br>";
    echo $this->name." has ".$this->experience." years of programming experience.
<br>";
    echo $this->lang." is ".$this->name."'s favorite programming language.<br>";
    echo $this->name." holds the degree: ".$this->education."<br><br>";
}
}
// Instantiating a programmer
$paul = new Programmer('Paul Conrad',12,'C++','Bachelor of Science in Computer
Science');
$paul->output();
// Oops, Paul has programmed alot longer than 12 year, really is 22 years
$paul->set_experience(22);
$paul->output();
?>

```

Selected Answer:

Programmer Name: Paul Conrad
Paul Conrad has 12 years of programming experience.
C++ is Paul Conrad's favorite programming language.
Paul Conrad holds the degree: Bachelor of Science in Computer Science

Programmer Name: Paul Conrad
Paul Conrad has 22 years of programming experience.
C++ is Paul Conrad's favorite programming language.
Paul Conrad holds the degree: Bachelor of Science in Computer Science

Correct Answer:

Programmer Name: Paul Conrad
Paul Conrad has 12 years of programming experience.
C++ is Paul Conrad's favorite programming language.
Paul Conrad holds the degree: Bachelor of Science in Computer Science

Programmer Name: Paul Conrad
Paul Conrad has 22 years of programming experience.
C++ is Paul Conrad's favorite programming language.
Paul Conrad holds the degree: Bachelor of Science in Computer Science

Question 17

1 out of 1 points

A general class that cannot have any corresponding instantiated objects is called a(n) _____ class.

Selected Answer: Abstract

Correct Answer: Abstract

Question 18

1 out of 1 points

Which of the following is not a valid way to start a PHP comment?

Selected Answer: <comment



Correct Answer: <comment



Question 19

2 out of 2 points

What is the output of the following PHP code?

```
<?php
```

```
$foo = (5*5)%5;  
echo "$foo";
```

```
?>
```

Selected Answer: 0

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
<input checked="" type="checkbox"/> <i>Exact Match</i>	0	

Question 20

1 out of 1 points

What is the correct way to create a function in PHP?

Selected Answer: function myFunction()

Correct Answer: function myFunction()

Question 21

1 out of 1 points

All variables in PHP start with which symbol?

Selected Answer: \$



Correct Answer: \$



Question 22

1 out of 1 points

What is the correct way to add 1 to the \$count variable?

Selected Answer: \$count++;



Correct Answer: \$count++;



Question 23

2 out of 2 points

What is the output of following PHP code:

```
<?php
function checkParameter ($arg) {
    $arg +=10;
}
$final = 300;
checkParameter($final);
echo $final;
?>
```

Selected Answer: 300

Correct Answer: 300

Question 24

9 out of 13 points

In a main program, create first array using the following values: 9, 3, 1, 0, 99, 2, 5, 6, 32, 1, 55 (0.5 mark)

Then, create second array with the following values: 9, 18, 1, 0, 23, 22, 4, 6, 5, 32, 55 (0.5 mark)

Write a function that passes both arrays as parameters and tests the values of both arrays. If the values at the same index match, the function will display the following:

“The values at <insert the matching index> match which is <insert the matching number> ” (4 marks)

Write another function that passes both arrays as parameters and finds the mode and median of

both arrays. The function will display the following:

“The mode and the median of the first array are respectively <insert the mode> and <insert the median>.”

The mode and the median of the second array are respectively <insert the mode> and <insert the median>.” (8 marks)

Hints: You are allowed to use built-in array functions (E.g., count(), array_count_values(), array_intersect_assoc()).

To find the **median**, your numbers have to be sorted in numerical order from smallest to largest, then you may have to find the middle element of an array.

The "**mode**" is the value that occurs most often in an array.

```
Selected      $firstArray[] = array( 9, 3, 1, 0, 99, 2, 5, 6, 32, 1, 55 );
Answer:       $secondArray[] = array( 9, 18, 1, 0, 23, 22, 4, 6, 5, 32, 55 );
              function testArray($first[], $second[]) {
                for ($i = 0; i < 11; i++) {
                  if ( $first[i] == $second[i] ) {
                    echo "The values at".$i." match which is ".$first[i];
                  }
                }
              }
              function findModeAndMedian ($first[], $second[]) {
                sort($first);
                sort($second);
                $median1 = $first[count($first)/2];
                $mode2 = array_count_values($first)/count($first);
                $median1 = $second[count($second)/2];

                $mode2 = array_count_values($second)/count($second);

                echo "The mode and the median of the
                    first array are respectively ".$mode1." and ".$median1."<br>";

                echo "The mode and the median of
                    the second array are respectively ".$mode2." and ".$median2;

              }
```

Correct [None]
Answer:
Response [None Given]
Feedback:

Question 25


0 out of 2 points

What is the output of the following PHP code?


```
<?php
```

```
$a=true;
$b=true;
$c= $a == $b;
echo "$c ";

?>
```

Selected Answer:  true

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	1	

Question 26

0 out of 2 points

What is the output of the following PHP code?

```
<?php
$foo = 5*5%4;
echo "$foo";

?>
```

Selected Answer:  5


Correct Answer:


Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	1	

Question 27

1 out of 1 points

PHP server scripts are surrounded by delimiters, which?

Selected Answer:  <?php...?>

Correct Answer:  <?php...?>

Question 28

2 out of 2 points


What is the output of the following PHP code?

```
<? php
$x = 75;
$y = 25;
```

```
function addition() {  
    $GLOBALS['z'] = $GLOBALS['x'] + $GLOBALS['y'];  
}
```

```
addition();  
echo $z;
```

?>

Selected Answer:  100

Correct Answer:


Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	100	

Question 29

2 out of 2 points

What is the output of the following PHP code?

```
<?php  
  
$foo = 5*(5%4);  
echo "$foo";  
  
?>
```

Selected Answer:  5

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	5	

Question 30

0 out of 3 points

What is the output of the following PHP code?

```
<? php  
  
class Config {  
    const TYPE_CAT=1;  
    const TYPE_DOG=2;  
    const TYPE_LION=4;  
    const TYPE_RAT=8;  
    const TYPE_BIRD=16;  
    const TYPE_ALL=31;  
  
    private $config;
```

```

public function __construct($config){
    $this->config=$config;

    if($this->is(Config::TYPE_CAT)){
        echo 'cat ';
    }
    if($this->is(Config::TYPE_DOG)){
        echo 'dog ';
    }
    if($this->is(Config::TYPE_RAT)){
        echo 'rat ';
    }
    if($this->is(Config::TYPE_LION)){
        echo 'lion ';
    }
    if($this->is(Config::TYPE_BIRD)){
        echo 'bird ';
    }

}

private function is($value){
    return $this->config & $value;
}
}

new Config(Config::TYPE_ALL & ~Config::TYPE_DOG & ~Config::TYPE_CAT);

?>

```

Selected Answer: cat dog rat lion bird



Correct Answer: rat lion bird

Question 31

0 out of 2 points

What is the output of the following PHP code?

```

<? php

$a=true;
$b=false;
$c= $a !== $b;
echo "$c";

?>

```

Selected Answer: false


Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
 Exact Match	1	

Question 32

1 out of 1 points

Which of the following are not valid variables?

Selected Answer:  \$11f




Correct Answer:  \$11f




Question 33

0 out of 1 points

Which of the following is an acceptable way to create a PHP array?

Selected Answer:  \$example = new string[10];


Correct Answer:  \$example = array();


Question 34

1 out of 1 points

Which statement about the code below is correct?

```
<?php
class Teacher {}
class Student {}
class Admin extends Teacher, Student {}
?>
```

Selected Answer:  class Admin can not extend both Teacher and Student

Correct Answer:  class Admin can not extend both Teacher and Student

Question 35


0 out of 2 points

What is the output of the following PHP code?

```
<?php
```

```
$foo = "wombat" * 2;  
echo "$foo";
```

?>

Selected Answer:  wombat2

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	0	

Question 36

1 out of 1 points

In PHP, which would be the proper way within the class Artist to reference the instance method getLastName() that is defined in its superclass, Person?

Selected Answer:  parent::getLastName();

Correct Answer:  parent::getLastName();


Question 37

2 out of 2 points

What is the output of the following PHP code?

```
<? php  
  
$x = 100;  
$y = 50;  
  
if ($x == 100 xor $y == 50) {  
    echo "1";  
}  
else  
    echo "0";
```

?>

Selected Answer:  0

Correct Answer:


Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	0	


Question 38

2 out of 2 points

What will be the output of the following PHP code?

```
<?php
$abc = 30;
function calculate($param) {
    return $param + $abc;
}
echo calculate(20);
?>
```


Selected Answer:  20

Correct Answer:  20

Question 39

1 out of 1 points

A class and an object are the same thing?

Selected Answer:  False

Correct Answer:  False

Question 40

1 out of 1 points

What is the correct way to end a PHP statement?


Selected Answer:  ;


Correct Answer:  ;

Question 41

1 out of 1 points

In PHP you can use both single quotes (' ') and double quotes (" ") for strings:

Selected Answer:  True

Correct Answer:  True

Question 42

0 out of 2 points

```
<?php
$xyz = abc;
echo 'Value of abc = $xyz';
?>
```

Selected Answer:  Value of abc = abc

Correct Answer:  Value of abc = \$xyz

Question 43

1 out of 1 points

You wish to define a PHP method that is only available to subclasses of this class. Which access attribute would you use?

Selected Answer: protected

Correct Answer: protected