1. How do you declare the return type of a function?

A) function sum($a, $b) {return (int)$a + $b;}

B) function sum($a, $b) :int {return $a + $b;}

C) function sum($a, $b) => int {return $a + $b;}

D) It is not possible to define a return type

2. What does the following code print?

$a = 'aaaa';

$b = 'bbbb';

echo $a ?? $b ?? 'cccc';

A) aaaa

B) bbbb

C) cccc

D) null

3. What does the following code print?

echo 2 <=> 1;

A) -1

B) 1

C) 0

D) 2

4. What will be the output of the below code?

$a = "PHP";

$a++;

echo $a;

A) PHQ

B) PHP

C) 0

D) 1

5. What is the output of the following code:

$a = '1';

$b = &$a;

$b = "2$b";

echo $a.", ".$b;

A) 21, 21

B) 20, 21

C) null

D) an error

6. Given the two values below, which of the following possiblities will print 10 foos20 bars?

$var1 = "10 foos";

$var2 = "20 bars";

print ???????;

A) implode("", array($var1,$var2));

B) $var1 . $var2

C) "{$var1}{$var2}"

D) None of the above

7. What combination of boolean values for $a, $b, $c, and $d will result in the variable $number being equal to 3?

$a = null;

$b = null;

$c = null;

$d = null;

```
if($a && !$b) {
   if(!!$c && !$d) {
     if($d && ($a || $c)) {
       if(!$d && $b) {
          $number = 1;
       } else {
          $number = 2;
       }
     } else {
       $number = 3;
     }
   } else {
```

```
        $number = 4;

    }

} else {

    $number = 5;

}
```

A) false, true, true, true

B) true, true, false, false

C) false, true, true, false

D) true, false, true, false

8. Which of the following are valid PHP variables? (Choose 3)

A) $1variable

B) @$foo

C) &$variable

D) ${0x0}

9. Which statement will return the third parameter passed to a function?

A) $argv[3];

B) $argv[2];

C) func_get_arg(2);

D) func_get_args(3);

10. What is the output of the following function?

```
function &find_variable(&$one, &$two, &$three) {

    if ($one > 95 && $one < 100) return $one;

    if ($two > 10 && $two < 20) return $two;

    if ($three > 1 && $three < 100) return $three;

}
```

```
$one = 90;

$two = 60;

$three = 89;
```

```php
$var = &find_variable($one, $two, $three);
$var++;
echo "$one - $two - $three";
```

A) 91 - 61 - 91

B) 91 - 60 - 89

C) 90 - 60 - 90

D) 90 - 61 - 89

11. What is the output of the following code?

```php
function oranges($oranges = 17) {
    $oranges .= 1;
}
$apples = 5;
oranges($apples);
echo ++$apples;
```

A) 6

B) 17

C) 18

D) 7

12. Which of the following is not valid syntax for creating a new array key?

A) $a[] = "value";

B) $a[0] = "value";

C) $a{0} = "value";

D) $a{} = "value";

13. What is the output of the following?

```php
$a = 010;
$b = 0xA;
$c = 2;
print $a + $b + $c;
```

A) 22

B) 18

C) 20

D) $a is an invalid value

    14. What is the difference between the include and require language constructs?

A) Require constructs cause a fatal error if the file can't be read

B) Require constructs can't be used with URL filenames

C) Include constructs cause a fatal error if the file doesn't exist

D) There is no difference other than the name

    15. What is the output of the following?

```
$a = 0b010;
$b = 0xA;
$c = 2;
print $a + $b + $c;
```


A) 14

B) an error if PHP < 5.4

C) 2

D) 4

    16. What does the following code output?


```
$i = 016;
echo $i / 2;
```


A) an error

B) 7

C) 8

D) 0

    17. What is the output of the following PHP script?


```
$a = 1;
```

$b = 2.5;

$c = 0xFF;

$d = $b + $c;

$e = $d * $b;

$f = ($d + $e) % $a;

print ($f + $e);

A) 432

B) 643.75

C) 643

D) 257

18. What is the default value for the "max_execution_time" setting when running PHP as a CLI SAPI ?

A) 0 (Zero) which stands for infinite

B) Whatever is set as the value for "max_execution_time" in php.ini

C) There is no "max_execution_time" setting if running PHP as a CLI SAPI

D) -1

19. When running PHP's built in FastCGI Process Manager (FPM) which of the following statements are true ?

A) Settings initialized in the php-fpm.conf file with php_admin_flag can not be overwritten in the code through ini_set()

B) The special fastcgi_finish_request() function allows PHP to finish request and flush all data while continuing to do various tasks in the background

C) It doesn't provide any easy way of debugging slow performing requests/scripts

D) All variant are true

20. How does Opcode Cache improve performance in PHP 5.5+ ?

A) Opcache stores precompiled script bytecode in memory, thus removing the need to load and parse scripts on each request.

B) Opcode Cache stores objects in memory so that they can be accessed directly by other processes.

C) Opcode Cache stores database query results thus eliminating the need of executing those queries again

D) Opcode does`not exist in php

21. Which is a valid way for calling test functions?

```
function test(?int $n) {
  var_dump($n);
}
```

A) test(null);

B) test('1');

C) test(1);

D) test();

22. What is the result of the code below?

```
echo ("0.00") ? "mary" : "angie";
```

A) Syntax Error

B) mary

C) angie

D) maryangie

23. Which PHP function(s) can be used to check if a variable is defined and is not NULL ?

A) With the isset() function

B) With the isset() and is_null() functions

C) With the empty() function

D) With instanceof operator

24. What happens when you run the script below ?

```
define("2MYCONSTANT", "avalue");
if(defined("2MYCONSTANT"))
echo "We have a constant: " . 2MYCONSTANT;
```

A) The script echoes: We have a constant: avalue

B) The script echoes: We have a constant: 2MYCONSTANT

C) 0

D) Fatal Error

25. hat happens when you run the script below ?

```
define("2MYCONSTANT", "avalue");
if(defined("2MYCONSTANT"))
echo "We have a constant: " . 2MYCONSTANT;
```

A) The script echoes: We have a constant: avalue

B) The script echoes: We have a constant: 2MYCONSTANT

C) 0

D) Fatal Error

26. What happens when you run the script below ?

```
if(-1)
   echo 'TRUE';
else
   echo 'FALSE';
```

A) The script echoes: "FALSE"

B) Syntax Error

C) The script echoes: "TRUE"

D) x

27. What is the output of the script below ?

```
$i = 1;
do {
   $i++;
} while ($i===0);
echo $i;
```

A) 2

B) 1

C) 0

D) 3

28. What is the output of the following code?

```
$a = 1;
++$a;
$a *= $a;
echo $a--;
```

A) 3

B) 4

C) 5

D) 0

29. Function world() is defined in the global namespace 'hello'. Your code is in namespace 'myapp'. What is the correct way to import the namespaceso you can use the world() function?

A) use hello;

B) use hello\world;

C) use \hello\hello;

D) use \hello;

30. What is the output of the following code?

```
function fibonacci($x1, $x2) {
        return $x1 + $x2;
}
$x1 = 0;
$x2 = 1;
for ($i =0; $i < 10; $i++) {
        echo fibonacci($x1, $x2) . ',';
}
```

A) 1,1,1,1,1,1,1,1,1,1

B) 1,2,3,4,5,6,7,8,9

C) 1,2,3,4,5,6,7,8,9,10,

D) 1,2,3,5,8,13,21,34,55,89,

31. Which PHP functions may be used to find out whitch PHP extension are available in the system? (Choose 2)

A) get_loaded_extensions();

B) phpinfo();

C) get_extensions_funcs();

D) extension_loaded();

32. Your PHP scripts is repeatedly parseing 50kb of data returned from a remote web service into browser-redable HTML.

Users complain that the script takes a long time to run. Which of the following measures usually leads to the best results? (Choose 2)

A) Install a bytecode cache

B) Install an SSD drive on that server

C) Cache the data returned by the web service locally

D) Upgrade to the last version of PHP

33. What is goog rule to follow when quoting string data?

A) Use single quotes unless you have a ' in your string or you are doing variable interpolation because it declares whether you want variablees to be interpolated

B) Use double quotes because you might want to use variable interpolation at later time;

C) Use single quotes unless you are using variable interpolation because single quotes are faster

D) all

34. What is the result of the following code?

$a = null;

$b = 1;

$c = 'c';

echo $a ?? '!a';

echo $b ?? '!b';

echo $c ?? '!c';

echo $d ?? '!d';

A) A warning saying that "$d" is not declared;

B) 1c

C) !a1c!d

D) A parse error because the "??" operator does not exist in PHP

35. What is the result of tht following code?

```
echo 1 <=> 2;
echo 'aa' <=> 'zz';
echo [1,2,3] <=> [7,8,9];
```

A) -1-1-1

B) truetruetrue

C) falsfalsfals

D) nullnullnull

36. What is the result of tht following code?

```
echo 1 <=> 2;
echo 'aa' <=> 'zz';
echo [1,2,3] <=> [7,8,9];
```

A) -1-1-1

B) truetruetrue

C) falsfalsfals

D) nullnullnull

37. What is the result of tht following code?

```
echo 1 <=> 2;
echo 'aa' <=> 'zz';
echo [1,2,3] <=> [7,8,9];
```

A) -1-1-1

B) truetruetrue

C) falsfalsfals

D) nullnullnull

38. Give the following expression: "$$foo['bar']". Which of the statements below are true?

A) In PHP 5, it will be evaluated as ${$foo['bar']}

B) In PHP 7, it will be evaluated as {$$foo}['bar']

C) In is evaluated as {$$foo}['bar'] in both PHP 5 and PHP 7

D) Give that "$foo" is an array , such expressions are possible only in PHP 7

39. How does the combined comparison operator ("<=>") work when comparing strings?

A) It compares them one character at a time and stops when it encounters different characters.

B) It does not work with strings. It only work with numbers of array of numbers.

C) It first compares their length, so it considers the longer string to be bigger one.

D) It casts them to an integer value and compares them;

40. What is the result of the following code?

var_dump(1 < 2 > 1);

A) true

B) a parse error

C) false

D) an empty string

41. What is the result of the following code?

$x = true and false;

$y = (true and false);

var_dump($x);

var_dump($y);

A) bool(true)
   bool(true)

B) bool(false)
   bool(true)

C) bool(false)
   bool(true)

D) bool(true)
   bool(false)

42. What is the result of the following code?

var_dump(min(-100, -10, NULL, 10, 100));

A) NULL

B) -100

C) an error

D) 0

43. Which types of form elements can be excluded from the HTTP request?

A) radio and checkbox

B) text, radio, and checkbox

C) text, submit, and hidden

D) submit and hidden

44. If a function signature contains three parameters, for which of them may the splat operator be use

A) The first parameter

B) The second parameter

C) The third parameter

D) All three parameters

45. What is the best way to test if $param is an anonymous function in a method?

A) Use the type-hint Closure on the signature

B) Use method_exists($this,$param)

C) Use is_callable($param)

D) Use is_executable($param)

46. What is the output of the following code?

```
function func($x, $x = 2, $x = 3)  {

   return $x;

}
echo func(3);
```

A) Fatal error: Redefinition of parameter $x

B) 3 will be printed

C) 2 will be printed

D) None of the above

47. Which of the following types can be used as an array key? (Select three.)

A) Integer

B) Floating-point

C) Boolean

D) Array

48. Which of the following types can be used as an array key? (Select three.)

A) Integer

B) Floating-point

C) Boolean

D) Array