

1. What is the difference between the spaceship operator(<=>) and the strcmp() function?
- (A) There is no difference in functionality
 - (B) strcmp() returns a Boolean value, the spaceship operator a number
 - (C) strcmp() does a case-intensive comparison, the spaceship operator does not
 - (D) The spaceship operator returns -1, 0 or 1; strcmp() may return any integer

Answer: D

2. Which of these error types may be handled by a user defined error handler function?
{Choose two.}
- (A) E_ERROR
 - (B) E_NOTICE
 - (C) E_PARSE
 - (D) E_WARNING

Answer: A, C

3. What is the output of the following code?

```
$a=[1=>'a',3=>'b',6=>'c']+['d','e','f'];  
echo count($a);
```

Answer: 5

4. What is the output of the following code?

```
$a='Good Luck!';  
var_dump(substr($a,10));
```

- (A) string(0) ""
- (B) bool(false)
- (C) string(1) "!"
- (D) string(2) "k!"

Answer: C

5. What is the benefit of using persistent database connections in PHP? (Choose two.)
- (A) Reduces the connection & authentication overhead of connecting to the database wrong
 - (B) Ensures that only a single connection is open to the database from PHP
 - (C) Allows connection settings such as character set encoding to persist correct

(D) Allows for resumption of transactions across multiple requests.

Answer: C, D

6. What function is best suited for extracting data from a formatted string into an array?

- (A) fgetcscv
- (B) sscanf
- (C) Sprintf
- (D) Strtok

Answer: C

7. What exception type will catch the error raised by the expression $2 / 0$?

- (A) LogicException
- (B) RangeException
- (C) DivisionByZeroError
- (D) ArithmeticError

Answer: C

8. Which value will be assigned to the key O in the following code?

```
$a - array(true,'0'=>false,false=>false);
```

Answer:?

9. What is the output of the following code?

```
echo '1' . (print '2') + 3;
```

Answer: 214

10. Which of the following may be used in conjunction with CASE inside a SWITCH statement?

- (A) **A scalar**
- (B) An expression
- (C) A boolean
- (D) All of the above

Answer: D

11. Which of the following are valid identifiers? (Choose 3)

- (A) function 4You () {}
- (B) **function_4You () {}**
- (C) **function object () {}**
- (D) \$1 = "Hello";
- (E) \$ 1 = "Hello World";

Answer: B, C

12. What is the output of the following code?

```
echo "1" + 2 * "0x02";
```

- (A) 1
- (B) 3
- (C) **5**
- (D) 20
- (E) 7

Answer: 5

13. What is the result of the following bitwise operation in PHP?

```
1 ^ 2
```

- (A) **1**
- (B) **3**
- (C) **2**
- (D) **4**
- (E) **-1**

Answer: B

```
echo 5 ^ 1; == 4
```

```
echo 5 ^ 2 == 7
```

```
echo 5 ^ -1; == -6
```

14. Your supervisor wants you to disallow PHP scripts to open remote HTTP and FTP resources using PHP's

file functions.

Which php.ini setting should you change accordingly?

Answer: allow_url_fopen=off

15. What function allows resizing of PHP's file write buffer?

- (A) ob_start()
- (B) set_write_buffer()
- (C) **stream_set_write_buffer()**
- (D) Change the output_buffering INI setting via ini_set() function

Answer: C

16. What does the `_FILE_` constant contain?

- (A) The filename of the current script.
- (B) **The full path to the current script.**
- (C) The URL of the request made.
- (D) The path to the main script.

Answer: B

17. Which of these elements can be encapsulated by namespaces and made accessible from the outside?

- (A) **Only classes**
- (B) **Classes, functions and constants**
- (C) **Classes, functions, constants and variables**

Answer: B

18. You'd like to use the class `MyDBConnection` that's defined in the `MyGreatFrameworkMyGreatDatabaseAbstractionlayer` namespace, but you want to minimize *as much as possible* the length of the class name you have to type.

What would you do?

- (A) Import the `MyGreatFramework` namespace
- (B) Import the `MyGreatFrameworkMyGreatDatabaseAbstractionlayer` namespace
- (C) Alias `MyGreatFrameworkMyGreatDatabaseAbstractionlayerMyDBConnection` to a shorter name
- (D) Alias `MyGreatFrameworkMyGreatDatabaseAbstractionlayer` to a shorter name

Answer: C

19. What would be the output of the following code?

```
namespace MyFrameworkDB;
```

```
class MyClass {
```

```
static function myName() {
```

```
return _METHOD_;
```

```
}
```

```
print MyClass::myName();
```

- (A) MyFrameworkDBmyNamewrong
- (B) MyFrameworkDBMyClassmyName
- (C) MyFrameworkDBMyClass::myName
- (D) MyClass::myName

Answer: C

20. Which SPL class implements fixed-size storage?

Answer: SplFixedArray

21. In order to create an object storage where each object would be stored only once, you may use which of the following? (Choose 2)

- (A) SplFixedArray
- (B) SplObjectStorage
- (C) SplString
- (D) spl_object_hash
- (E) spl_same_object

Answer: B, D

22. Late static binding is used in PHP to:

- (A) Load dynamic libraries and extensions at runtime
- (B) Use caller class information provided in static method call
- (C) Resolve undefined class names by automatically including needed files
- (D) Find proper method to call according to the call arguments

Answer: B

23. Which of the following tasks can be achieved by using magic methods? (Choose 3)

- (A) Initializing or uninitializing object data correct
- (B) Creating a new stream wrapper
- (C) Creating an iterable object
- (D) Processing access to undefined methods or properties correct
- (E) Overloading operators like +, *, etc.
- (F) Converting objects to string representation

Answer: A, D, F

24. SimpleXML provides the ability to iterate over items in an XML document, as well as access items within it as if they were object properties.

When creating your own classes to access data, implementing which of the following would NOT achieve this goal?

- (A) `_toString` correct
- (B) **`Iterator`** wrong
- (C) `_get/ _set`
- (D) `ArrayAccess`

Answer: B

25. What is the output of the following code?

```
class Base {  
  
    protected static function whoami() {  
  
        echo "Base ";  
  
    }  
  
    public static function whoareyou() {  
  
        static::whoami();  
  
    }  
  
    class A extends Base {  
  
        public static function test() {  
  
            Base::whoareyou();  
  
        }  
  
    }  
}
```

```

}

self::whoareyou();

parent::whoareyou();

A::whoareyou();

static::whoareyou();

public static function whoa mi() {

echo "A";

class B extends A {

}

public static function whoa mi() {

echo "B ";

```

B::test();

- (A) BBB BB**
- (B) Base A Base A B**
- (C) Base BB AB**
- (D) Base BAAB**

Answer: ?

26. Late static binding is used in PHP to:

- (A) Load dynamic libraries and extensions at runtime**
- (B) Use caller class information provided in static method call**
- (C) Resolve undefined class names by automatically including needed files**
- (D) Find proper method to call according to the call arguments**

Answer: B

27. What is the output of the following code?

```

class Test {

public function _call($name, $args)

```

```
{
    call_user_func_array(array('static', "test$name"), $args);
}
```

```
public function testS($1) {
```

```
    echo "$1,";
```

```
class Test2 extends Test {
```

```
    public function testS($1) {
```

```
        echo "$1,$1,";
```

```
    }
```

```
$test = new Test2();
```

```
$test->S('A');
```

(A) A,

(B) A,A,

(C) A,A,A,

(D) PHP Warning: call_user_func_array() expects parameter 1 to be a valid callback

Answer: B

28. Which of the following tasks can be achieved by using magic methods? (Choose 3)

(A) Initializing or uninitializing object data

(B) Creating a new stream wrapper

(C) Creating an iterable object

(D) Processing access to undefined methods or properties

(E) Overloading operators like+,*, etc.

(F) Converting objects to string representation

Answer: A, D, F

29. How should class MyObject be defined for the following code to work properly? Assume \$array is an

array and MyObject is a user-defined class.

```
$obj = new MyObject();
```


`array_walk($array, $obj);`

- (A) MyObject should extend class Closure
- (B) MyObject should implement interface Callable
- (C) MyObject should implement method `_call`
- (D) MyObject should implement method `_invoke`

Answer: D

30. SimpleXML provides the ability to iterate over items in an XML document, as well as access items within it as if they were object properties.

When creating your own classes to access data, implementing which of the following would NOT achieve this goal?

- (A) `_toString` correct
- (B) Iterator
- (C) `_get/ _set`
- (D) `ArrayAccess`

Answer: A

31. Which of the following is used to find all PHP files under a certain directory?

- (A) `PHPIterator`
- (B) `RecursiveTreeIterator`
- (C) `RecursiveDirectoryIterator` correct
- (D) `SplTempFileObject`

Answer: C

32. Which PHP function is used to validate whether the contents of `$_FILES['name']['tmp_name']` have really been uploaded via HTTP?

Answer: `is_uploaded_file()`

33. Which PHP function is used to validate whether the contents of `$_FILES['name']['tmp_name']` have really been uploaded via HTTP, and also save the contents into another folder?

Answer: `move_uploaded_file()`, `move_uploaded_file`

34. What is the name of the key for the element in `$_FILES['name']` that contains the provisional name of the uploaded file?

Answer: *tmp_name*

35. What is the name of the key in `$_FILES['name']` that contains the number of bytes of the uploaded file?

(A) size

Answer: A

36. Given the following Date Time object, which sample will NOT alter the date to the value '2014-02-15'?

`$date= new DateTime('2014-03-15');`

(A) `$date->sub(new DateInterval('P1M'));`

(B) `$date->setDate(2014, 2, 15);`wrong

(C) `$date->modify('-1 month');`

(D) `$date->diff(new DateInterval('-P1M'))`

Answer: D

37. Given a php.ini setting of `default_charset = utf-8`

what will the following code print in the browser?

```
header('Content-Type: text/html; charset=iso-8859-1');
```

```
echo '&#9986;&#10004;&#10013;';
```

(A) Three Unicode characters, or unreadable text, depending on the browser

(B) `✂✔✝`

(C) A blank line due to charset mismatch

Answer: A

38. Which class of HTTP status codes is used for server error conditions?

(A) 2XX

(B) 3XX

(C) **4XX**

(D) 5XX

Answer: D

39. Which class of HTTP status codes is used for redirections?

(A) 2XX

(B) 3XX

- (C) 4XX
- (D) 5XX

Answer: B

40. Under what condition may HTTP headers be set from PHP if there is content echoed prior to the header function being used?
- (A) **headers_sent() returns true**
 - (B) Output buffering is enabled
 - (C) The client supports local buffering
 - (D) The webserver uses preemptive mode

Answer: B

41. How can you determine whether a PHP script has already sent cookies to the client?
- (A) Use \$_COOKIE
 - (B) **Use the getcookie() function**
 - (C) Use the headers_sent() function
 - (D) Use JavaScript to send a second HTTP request

Answer: C

42. What is the output of the following code?

```
function append($str)
{
    $str = $str.'append';
}

function prepend(&$str)
{
    $str = 'prepend'.$str;
}

$string= 'zce';

append(prepend($string));

echo $string;
```

- (A) zceappend
- (B) prependzceappend
- (C) prependzce

(D) Zce

Answer: C

NB: \$str value replace

43. Which of the following is true about stream contexts? (Choose 2)
- (A) A context can modify or enhance the behavior of a stream
 - (B) A context indicates what session the stream is part of
 - (C) A context is a set of parameters and stream wrapper specific options
 - (D) Contexts are created with new Stream_Context();

Answer: A, C

44. What will an opcode cache ALWAYS automatically improve?
- (A) Running time of a loop in a PHP script
 - (B) Efficiency of HTML markup generated by a PHP script
 - (C) **Execution speed of a PHP script**
 - (D) Memory footprint of a PHP script
 - (E) None of the above

Answer: E

45. Consider the following code:

```
$result= $value1 ??? $value2;
```

Which operator needs to be used instead of??? so that \$result equals \$value1 if \$value1 evaluates to true, and equals \$value2 otherwise? Just state the operator as it would be required in the code.

Answer: ?:

46. Which of the following is NOT true about PHP traits? (Choose 2)
- (A) Multiple traits can be used by a single class.
 - (B) A trait can implement an interface.
 - (C) A trait can declare a private variable.
 - (D) **Traits are able to be auto-loaded.**
 - (E) **Traits automatically resolve conflicts based on definition order.**

Answer: B, E

47. Given the following code, what will the output be:

```
trait MyTrait {
```

```

    }

    private $abc = 1;

    public function increment() {

        $this->abc++;

    }

    public function getValue() {

        return $this->abc;

    }

    class MyClass {

        use MyTrait;

        public function incrementBy2() {

            $this->increment();

            $this->abc++;

            $c = new MyClass;

            $c->incrementBy2();

            var_dump($c->getValue());
        }
    }

```

(A) Fatal error: Access to private variable MyTrait::\$abc from context MyClass

(B) **Notice: Undefined property MyClass::\$abc**

(C) int(2)

(D) int(3)

(E) NULL

Answer: D

48. Given the following code, how can we use both traits A and B in the same class? (select all that apply)

```

trait A {

    public function hello() {

```

```

return "hello";

}

public function world() {

return "world";

}

}

trait B {

public function hello() {

return "Hello";

}

public function person($name) {

return ": $name";

```

- (A) Rename the A::hello () method to a different name using A::hello as helloA;
- (B) Use B::hello () instead of A's version using B::hello instead of A
- (C) Use B::hello () instead of A's version using use B::hello
- (D) Rename the A::hello () method to a different name using A::hello renamed to helloA;
- (E) None of the above (both can be used directly)

Answer: B

49. Which of the following statements about anonymous functions in PHP are NOT true?
(Choose 2)

- (A) Anonymous functions can be bound to objects
- (B) Anonymous functions created within object context are always bound to that object
- (C) Assigning closure to a property of an object binds it to that object
- (D) Methods bind() and bindTo() of the Closure object provide means to create closures with different binding and scope

(E) Binding defines the value of \$this and the scope for a closure

Answer: B, C

50. Which of the following functions will allow identifying unique values inside an array?

- (A) array_unique_values
- (B) array_distinct
- (C) array_count_values
- (D) array_intersect
- (E) array_values

Answer: C

51. When using password_hash() with the PASSWORD_DEFAULT algorithm constant, which of the following is true? (Choose 2)

- (A) The algorithm that is used for hashing passwords can change when PHP is upgraded.
- (B) The salt option should always be set to a longer value to account for future algorithm requirements.
- (C) The string length of the returned hash can change over time.
- (D) The hash algorithm that's used will always be compatible with crypt().

Answer: A, C

52. Which of the following are NOT acceptable ways to create a secure password hash in PHP? (Choose 2)

- (A) md5()
- (B) hash_pbkdf2()
- (C) password_hash()
- (D) crypt()
- (E) openssl_digest()

Answer: A, E

53. Is the following code vulnerable to SQL Injection (\$mysqli is an instance of the MySQLi class)?

```
$age= $mysqli->real_escape_string($_GET['age']);  
$name= $mysqli->real_escape_string($_GET['name']);  
$query= "SELECT* FROM 'table' WHERE name LIKE '$name' AND age= $age";  
$results= $mysqli->query($query);
```

- (A) No, the code is fully protected from SQL Injection.
- (B) Yes, because the \$name variable is improperly escaped
- (C) Yes, because the \$name variable and the \$age variable is improperly escaped.

- (D) Yes, because the \$age variable is improperly escaped
- (E) Yes, because you cannot prevent SQL Injection when using MySQLi

Answer: D

54. Which of the following does NOT help to protect against session hijacking and fixation attacks?

- (A) Use SSL and set the \$secure cookie parameter to true.
- (B) Set the session.use_only_cookies php.ini parameter to 1.
- (C) Set the session.cookie_lifetime php.ini parameter to
- (D) Protect against XSS vulnerabilities in the application.
- (E) Rotate the session id on successful login and logout using session_regenerate_id()

Answer: C

55. Which of the following PHP functions can be used to set the HTTP response code?

(Choose 2)

- (A) header_add()
- (B) header()
- (C) http_set_status()
- (D) http_response_code()
- (E) http_header_set()

Answer: B, D

56. What is the name of the header used to require HTTP authentication?

- (A) Authorization-Required
 - (B) WWW-Authenticate
 - (C) HTTP-Authenticate
 - (D) Authentication-Required
 - (E) HTTP-Auth
- What is the benefit of using persistent database connections in PHP?

Answer: B

57. What types of HTTP authentication are supported by PHP? (Choose 2)

- (A) Basic
- (B) Advanced
- (C) Strict
- (D) Digest
- (E) Realm

Answer: A, D

58. When tracking upload progress with sessions, the values of 2 INI settings are needed to determine the key in \$_SESSION of the upload progress data.

What are the INI settings? (Choose 2)

- (A) session.upload_progress.file
- (B) session.upload_progress.key
- (C) session.upload_progress.prefix
- (D) session.upload_progress.freq
- (E) session.upload_progress.name

Answer: C, E

59. What is the name of the function that allows you register a set of functions that implement user-defined session handling?

- (A) session_set_handler()
- (B) session_set_storage_handler()
- (C) session_register_handler()
- (D) session_set_save_handler()

Answer: D

60. Which of these statements about PDO is NOT true?

- (A) PDO has built-in support for Large Objects (LOBs).
- (B) Placeholders within PDO prepared statements need to be named.
- (C) When something goes wrong, PDO can throw an instance of its own exception class.
- (D) PDO does not emulate missing database features.

Answer: B

61. What is the result of the following code?

```
class T

const A = 42 + 1; // sapling mistake const to cAnst

}
```

echo T::A;

- (A) 42
- (B) 43
- (C) Parse error

Answer: C

62. Which of the following statements is NOT correct?

- (A) Only methods can have type hints
- (B) Type hints can be optional
- (C) Type hints can be references

Answer: A

63. Which of the following statements is correct?

- (A) Interfaces can extend only one interface
- (B) Interfaces can extend more than one interface
- (C) Interfaces can inherit a method from different interfaces
- (D) Interfaces can redeclare inherited methods

Answer: B

64. Which of the following statements about exceptions is correct? (Choose 2)

- (A) you can only throw classes derived from Exception
- (B) a try block can have multiple catch blocks
- (C) a try block must not be followed by a catch block
- (D) try blocks cannot contain nested try blocks

Answer: A, B

65. Which of the following is NOT possible using reflection?

- (A) Analyzing of nearly any aspect of classes and interfaces
- (B) Analyzing of nearly any aspect of functions
- (C) Adding class methods
- (D) Implement dynamic construction (new with variable class name)

Answer: C

66. What is the name of the method that can be used to provide read access to virtual properties in a class?

- (A) _call()
- (B) _get()
- (C) _set()
- (D) _wakeup()
- (E) _fetch()

Answer: B

67. Which of the following statements about Reflection is correct?

- (A) Reflection is an extension that can be disabled
- (B) Reflection is a new extension present only in PHP 7.0+
- (C) Reflection only allows to reflect on built-in classes

(D) Built-in classes can be reflected on command line using `php --re <classname>`

Answer: D

68. What is the name of the PHP function used to automatically load non-yet defined classes?

- (A) `autoload()`
- (B) `_autoload()`
- (C) `_catch()`
- (D) `load()`
- (E) `loadClass()`

Answer: B

69. Type hinting in PHP allows the identification of the following variable types: (Choose 2)

- (A) String
- (B) Integer
- (C) Array
- (D) Any class or interface type
- (E) All of the above

Answer: C, D

70. Which of the following is correct? (Choose 2)

- (A) A class can extend more than one class.
- (B) A class can implement more than one class.
- (C) A class can extend more than one interface.
- (D) A class can implement more than one interface.
- (E) An interface can extend more than one interface.
- (F) An interface can implement more than one interface.

Answer: D, E

71. When a browser requests an image identified by an `img` tag, it never sends a Cookie header.

- (A) TRUE
- (B) FALSE

Answer: B

72. Which of the following super globals does not necessarily contain data from the client?

- (A) `$_POST`
- (B) `$_SESSION`
- (C) `$_GET`

(D) \$ SERVER

Answer: B

73. Transactions should be used to: (Choose 2)

- (A) Prevent errors in case of a power outage or a failure in the SQL connection
- (B) Ensure that the data is properly formatted
- (C) Ensure that either all statements are performed properly, or that none of them are.
- (D) Recover from user errors

Answer: A, C

74. Which technique should be used to speed up joins without changing their results?

- (A) Add indices on joined columns
- (B) Add a WHERE clause
- (C) Add a LIMIT clause
- (D) Use an inner join

Answer: A

75. Which of the following rules must every correct XML document adhere to? (Choose 2)

- (A) It has to be well-formed.
- (B) It has to be valid.
- (C) It has to be associated to a DT
- (D) It may only contain UTF-8 encoded characters.

answer: A,B

76. The XML document below has been parsed into \$xml via SimpleXML. How can the value of <foo> tag accessed?

```
<?xml version='1.0'?>
```

```
<document>
```

```
<bar>
```

```
<foo>Value</foo>
```

```
</bar>
```

```
</document>
```

- (A) \$xml->bar['foo']
- (B) \$xml->bar->foo

- (C) `$xml['document']['bar']['foo']`
- (D) `$xml->document->bar->foo`
- (E) `$xml->getElementByName('foo');`

answer: B

77. Which elements does the array returned by the function `pathinfo()` contain?

- (A) root, dir, file
- (B) dirname, filename, fileextension
- (C) dirname, basename, extension
- (D) path, file

answer: C

78. The constructs `for()`, `foreach()`, and `each()` can all be used to iterate an object if the object

- (A) implements `ArrayAccess`
- (B) implements `Iterator`
- (C) implements `Iterator` and `ArrayAccess`
- (D) None of the above

Answer: C

79. How many elements does the array `$matches` from the following code contain?

```
$str = "The cat sat on the roof of their house.";
$matches = preg_split("/(the)/i", $str, -1, PREG_SPLIT_DELIM_CAPTURE);
```

- (A) 2
- (B) 4
- (C) 5
- (D) 7
- (E) 9

Answer: D

80. Given the default PHP configuration, how can all of the parameters provided via GET be accessed in a form of a string?

- (A) A. `$_GET['ALL']`
- (B) B. `$_SERVER['QUERY']`
- (C) C. `$_SERVER['QUERY_STRING']`
- (D) D. `$_ENV['QUERY']`
- (E) E. `$QUERY_STRING`

ANSWER: C

81. `echo (int) ((0.1 + 0.7) * 10);`

answer 7 why?

82. What is the output of the following code?

	<pre>print strpos('Zend Certified Engineer', 116);</pre>
--	--

Answer: 8 why?

You run the following PHP script:

What will be the output?

```
$a = "b";  
    $b = 20;  
    ${20} = $a;  
    echo ${$b};
```

- A. b why?
- B. 20
- C. Script will show a Notice.
- D. Script will show a Parse error

You run the following PHP script:

```
$a=20%-8;  
    echo $a;
```

- A. 4 why?
- B. Script will show an error message.
- C. -7.8
- D. -4

