

1. Your public web application needs to provide access to binary files for registered users only. How would you achieve this?
 - A. Host the files on a public external file-sharing service.
 - B. Redirect to the file which resides in the server's document root
 - C. Use PHP to send the file to the client, using the header () function to set appropriate HTTP headers
 - D. PHP is used for service HTML content, not binary content

Answer: C

2. Which action does the ping 172.18.1.1 size 5 command perform?
 - A. It sends only five ping requests to the 172.18.1.1 destination.
 - B. It sends a continuous ping with a packet length of five bytes to the 172.18.1.1 destination.
 - C. It sends five rapid ping requests to the 172.18.1.1 destination.
 - D. It sends a continuous rapid ping with a packet length of five bytes to the 172.18.1.1 destination.

Answer: B

3. Which statement describes an advantage of dynamic routing?
 - A. Dynamic routing provides redundant IP addresses for end-user devices, unlike static routing.
 - B. Dynamic routing requires no initial user configuration, unlike static routing.
 - C. Dynamic routing provides DNS services along with IP connectivity; static routing does not.
 - D. Dynamic routing typically requires less time to implement than static routing in a large network.

Answer: D

4. What parsing methodology is utilized by the SimpleXML extension?
 - A. SAX
 - B. DOM
 - C. XPath
 - D. Push/Pull Approach
 - E. Expat

Answer: B

5. **Transactions are used to ...**
- A. guarantee high performance
 - B. secure data consistency
 - C. secure access to the database
 - D. reduce the database server overhead
 - E. reduce code size in PHP

Answer: B

6. **When a query that is supposed to affect rows is executed as part of a transaction and reports no affected rows, it could mean that: (Choose 2)**
- A. The transaction failed
 - B. The transaction affected no lines
 - C. The transaction was rolled back
 - D. The transaction was committed without error

Answer: A, B

7. **What is the output of the following code?**

```
function increment ($val){  
    ++$val;  
}
```

```
$val= 1;
```

```
increment ($val);
```

```
echo $val;
```

Answer: 1

8. **Assuming UTF-8 encoding, what is the value of \$count**
- ```
$data = '$1a2';
$count = strlen($data);
```

- A. 0
- B. 4
- C. 5
- D. 7

**Answer: C**

9. **What content-type is required when sending an HTTP POST using JavaScript to ensure that PHP can access the data?**
- A. application/x-www-form-urlencoded
  - B. http/post
  - C. text/html
  - D. object/multipart-formdata

**Answer: A**

10. **Which of the following code snippets is correct? (Choose 2)**

A. interface Drawable {  
    abstract function draw ();  
}

B. interface Point {  
    function getX();  
    function getY();  
}

C. interface Line extends Point {  
    function getX2();  
    function getY2();  
}

D. interface Circle implements Point {  
    function getRadius();  
}

**Answer: B, C**

11. Which SPL class implements fixed-size storage?

**Answer: SplFixedArray**

12. **Which interfaces could class C implement in order to allow each statement in the following code to work? (Choose 2)**

`$obj = new C();`

```
foreach ($obj as $x => $y) {
```

```
 echo $x, $y;
```

A. Iterator

B. ArrayAccess

C. IteratorAggregate

D. ArrayObject

**Answer: A, C**

13. Which php.ini setting is usually required to use an opcode cache?

A. extension

B. zend\_extension

C. optimizer

D. DI

**Answer: B**

14. 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**

15. Which of the following will set 10 seconds read timeout for a stream?

A. ini\_set("default\_socket\_timeout", 10);

B. stream\_read\_timeout(\$stream, 10);

C. Specify the timeout as the 5th parameter to the fsockopen() function used to open a stream

D. stream\_set\_timeout(\$stream, 10);

E. None of the above

**Answer: D**

16. Consider the following XML code:

```
<?xml version="1.0" encoding="utf-8"?>

<books>

<book id="1">PHP 5.5 in 42 Hours</book>

<book id="2">Learning PHP 5.5 The Hard Way</book>

</books>
```

Which of the following SimpleXML calls prints the name of the second book?

(Let `$xml = simplexml_load_file("books.xml")` ;) (Choose 2)

- A. `echo $xml->books->book[2];`
- B. `echo $xml->books->book[1];`
- C. `echo $xml->book[1];`
- D. `echo $xml->xpath("/books/book[@id=2]");`
- E. `$c = $xml->children(); echo $c[1];`

**Answer:** C, E

17. 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

18. Which of the following statements is NOT true?

- A. Class constants are public
- B. Class constants are being inherited
- C. Class constants can omit initialization (default to NULL)
- D. Class constants can be initialized by canes

**Answer:** C

19. Which of the following can be registered as entry points with a SoapServer instance (choose 2):

- A. A single function
- B. A single method from a class
- C. All methods from a class
- D. All classes defined in a script

**Answer: A, C**

20. Which of the following can NOT be used to send a cookie from within a PHP application?

- A. header()
- B. \$\_COOKIE
- C. setcookie()
- D. setrawcookie()

**Answer: B**

21. What is the output of the following code?

```
$text= 'This is text';
$text! = «< 'TEXT'
$text
TEXT;
```

```
$text2 = «<TEXT
$text!
TEXT;
```

```
echo "$text2";
```

- A. This is text
- B. \$text
- C. \$text!
- D. \$text2

**Answer: B**

22. How should you track errors on your production website?

- A. Enabling display\_errors
- B. Enabling log\_errors
- C. Having a site-wide exception handler

D. Setting error\_reporting to E\_ALL & ~E\_NOTICE

**Answer: B**

23. When retrieving data from URLs, what are valid ways to make sure all file\_get\_contents calls send a certain user agent string? (Choose 2)

- A. \$default\_opts = array('http'=>array('user\_agent'=>"My Cool Browser")); \$default=stream\_context\_set\_default(\$default\_opts);
- B. stream\_context\_set\_option("user\_agent", "My Cool Browser");
- C. ini\_set('user\_agent', "My Cool Browser");
- D. stream\_context\_set\_option(\$context, "http", "user\_agent", "My Cool Browser");

**Answer: A, C**

24. 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**

25. What is the output of the following code?

```
function fibonacci (&$x1 = 0, &$x2 = 1)
{
 $result= $x1 + $x2;

 $x1 = $x2;

 $x2 = $result;

 return $result;

 for ($i = 0; $i < 10; $i++) {

 echo fibonacci(). ' ';

 }
}
```

A. An error

- B. 1,1,1,1,1,1,1,1,1,1,
- C. 1,1,2,3,5,8,13,21,34,55,
- D. Nothing

**Answer: B**

26. What function can be used to retrieve an array of current options for a stream context?
- A. stream\_context\_get\_params
  - B. stream\_context\_get\_default
  - C. stream\_context\_get\_options
  - D. The 'options' element of the stream\_get\_meta\_data return value

**Answer: C**

27. 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**

28. Which of the following statements about PHP is false? (Choose 2)
- A. A final class can be derived.
  - B. A final class may be instantiated.
  - C. A class with a final function may be derived.
  - D. Static functions can be final.
  - E. Properties can be final.

**Answer: A, E**

29. Which of the following statements about PHP is true? (Choose 3)
- A. A final class can be derived.
  - B. A final class may be instantiated.
  - C. A class with a final function may be derived.



- D. Static functions can be final.
- E. Properties can be final.

Answer: B, C, D

30. Which of these databases is NOT supported by a PDO driver?

- A. Microsoft SQL Server
- B. SQLite
- C. Microsoft Access
- D. Berkeley DB

Answer: D

31. What super-global should be used to access information about uploaded files via a POST request?

- A. \$\_SERVER
- B. \$\_ENV
- C. \$\_POST
- D. \$FILES
- E. \$\_GET

Answer: D

32. What is the output of the following code?

```
class a
{
 public $val;
 function renderVal (a $a){
 if ($a) {
 echo $a->val;
 renderVal (null);
 }
 }
}
```

- A. A syntax error in the function declaration line
- B. An error, because null is not an instance of 'a'
- C. Nothing, because a null value is being passed to renderVal()
- D. NULL

Answer: B

33. 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**

34. 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:?:**

35. Which of the following parts must an XML document have in order to be well-formed?

- A. An XML declaration
- B. A root element
- C. A specified encoding
- D. A reference to either a DTD or an XML schema definition

**Answer: B**

36. Which of the following techniques ensures that a value submitted in a form can only be yes or no?

- A. Use a select list that only lets the user choose between yes and no.
- B. Use a hidden input field that has a value of yes or no.
- C. Enable the `safe_mode` configuration directive.
- D. None of the above.

**Answer: D**

37. 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

38. CORRECT TEXT

Which value will be assigned to the key 0 in the following code?

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

**Answer:** 1

39. 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, allow\_url\_fopen=Off

40. 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
- E. It may only contain UTF-8 encoded characters.

**Answer:** A, B

41. What is the output of the following code?

```
class Foo Implements Array Access {

function offsetExists($k) {return true;}
```

```
function offsetGet($k) {return 'a';}

function offsetSet($k, $v) {}

function offsetUnset($k) {}

}

$x = new Foo();

echo array_key_exists('foo', $x)?'true':'false';
A. true
B. False
```

**Answer: B**

42. Which of the following is an invalid DOM save method?

- A. save()
- B. saveFile()
- C. saveXML()
- D. saveHTML()
- E. saveHTMLFile()

**Answer: B**

43. An HTML form has two submit buttons. After submitting the form, how can you determine with PHP which button was clicked?

- A. An HTML form may only have one button.
- B. You cannot determine this with PHP only. You must use JavaScript to add a value to the URL depending on which button has been clicked.
- C. Put the two buttons in different forms, but make sure they have the same name.
- D. Assign name and value attributes to each button and use \$\_GET or \$\_POST to find out which button has been clicked.

**Answer: D**

44. What will the following code print out?

```
$str = '✔ one of the following';
```

```
echo str_replace('✔', 'Check', $str);
```

- A. Check one of the following
- B. one of the following
- C. &#10004; one of the following

Answer: A

45. 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

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

- A. \$\_POST
- B. \$\_SESSION
- C. \$\_GET
- D. \$\_SERVER

Answer: B

47. What is the benefit of using persistent database connections in PHP? (Choose two.)

- A. Reduces the connection & authentication overhead of connecting to the database
- 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
- D. Allows for resumption of transactions across multiple requests.

Answer: C, D

48. Before the headers are sent, how can you remove a previously set header?
- A. Use the `header_remove()` function, providing the name of the header
  - B. Use the `die()` function to abort the PHP script
  - C. Not possible
  - D. Use the `headers_list()` function, providing the name of the header as the second argument

Answer: A

49. What is the output of the following code?

```
var_dump(boolval([]));
```

- A. `bool(true)`
- B. `bool(false)`

Answer: B

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

- A. 2XX
- B. 3XX
- C. 4XX
- D. 5XX

Answer: B

51. Consider the following two files. When you run `test.php`, what would the output look like?

```
test.php:
include "MyString.php";
print ",";
print strlen("Hello world!");
MyString.php:
namespace MyFrameworkString;
function strlen($str){
```

```
return strlen($str)*2; // return double the string length
}
```

```
print strlen("Hello world!")
```

- A. 12,12
- B. 12,24
- C. 24,12
- D. 24,24
- E. PHP Fatal error: Cannot redeclare strlen()

Answer: C

52. 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

53. 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
- B. Iterator
- C. get/set
- D. ArrayAccess

Answer: A

54. What is the output of the following code?

```
$a= 3;
switch ($a) {

}
case 1: echo 'one'; break;
case 2: echo 'two'; break;
default: echo 'four'; break;
```

```
case 3: echo 'three'; break;
```

- A. one
- B. two
- C. three
- D. Four

Answer: C

55. 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: D

56. 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**

57. 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 '✂✔✝';
```

- A. Three Unicode characters, or unreadable text, depending on the browser
- B. &#9986;&#10004;&#10013;
- C. A blank line due to charset mismatch

**Answer: A**

58. What is the output of the following code?

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

- A. 1
- B. 3
- C. 5
- D. 20
- E. 7

**Answer: C**

59. 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, E**

60. What DOMElement method should be used to check for availability of a non-namespaced attribute?

- A. getAttributeNS()
- B. getAttribute()
- C. hasAttribute()
- D. hasAttributeNS()

Answer: C

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

**Answer: size**

62. What purpose do namespaces fulfill?

- A. Encapsulation
- B. Alternative to classes
- C. Improved performance
- D. All of the above

Answer: A

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

- A. TRUE
- B. FALSE

**Answer: B**

64. ou'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**

65. Which of the following is NOT possible using reflection?
- A. Analysing of nearly any aspect of classes and interfaces
  - B. Analysing of nearly any aspect offunctions
  - C. Adding class methods
  - D. Implement dynamic construction (new with variable class name)

Answer: C

66. Which line of code can be used to replace the INSERT comment in order to output "hello"?

```
class C {

 public $ello == 'ello';

 public $c;

 public $m;

 function _construct($y) {

 $this->c == static function($f) {

 // INSERT LINE OF CODE HERE

 };

 $this->m == function() {
 return "h";
 };

 $x == new C("h");
 }
}
```

```
$f == $x->c;
```

```
echo $f($x->m);
```

```
A. return $this->m() . "ello";
```

```
B. return $f() . "ello";
```

```
C. return 11h11 • $this->ello;
```

```
D. return $y. "ello";
```

**Answer: B**

67. What will be the result of the following operation?

```
$a= array_merge([1,2,3] + (4=>1,5,6]);
```

```
echo $a[2];
```

```
A. 4
```

```
B. 3
```

```
C. 2
```

```
D. false
```

```
E: Parse error
```

Answer: B

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

```
namespace MyFrameworkDB;
```

```
class MyClass {
```

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

```
return __METHOD__;
```

```
}
```

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

```
A. MyFrameworkDBmyName
```

```
B. MyFrameworkDBMyClassmyName
```

```
C. MyFrameworkDBMyClass::myName
```

D. MyClass::myName

Answer: C

69. 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**

70. An unbuffered database query will: (Choose 2)

- A. Return the first data faster
- B. Return all data faster
- C. Free connection faster for others scripts to use
- D. Use less memory

Answer: A,D

71. 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

72. In the following code, which line should be changed so it outputs the number 2:

```
class A {

 protected $x = array();/* A * /

 public function getX() { /* B * /
```

```
return $this->x; /* C */
```

```
$a = new A(); /* D */
```

```
array_push($a->getX(), "one");
```

```
array_push($a->getX(), "two");
```

```
echo count($a->getX());
```

A . No changes needed, the code would output 2 as is

B . Line A, to: protected &\$x = array();

C . Line B, to: public function &getX() {

D . Line C, to: return &\$this->x;

E . Line D, to: \$a =& new A();

Answer: C

73. How do you allow the caller to submit a variable number of arguments to a function?

A. Using a prototype-like function test( ... \$parameters).

B. Using a prototype like function test() and the function func\_get\_args() inside the function body.

C. Using a prototype like function test(\$parameters[]).

D. Using a prototype like function test() and the function get\_variable\_args() inside the function body.

E. This is not possible in PHP

Answer: B

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

A. PHPIterator

B. RecursiveTreeIterator

C. RecursiveDirectoryIterator

D. SplTempFileObject

Answer: C

75. 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(), is\_uploaded\_file

76. What is the output of the following code?

```
class C {

 public $x = 1;

 function _construct() { ++$this->x;}

 function _invoke() { return ++$this->x; }

 function _toString() { return (string) --$this->x;}

 $obj = new C();
```

```
 echo $obj();
```

A. 0

B. 1

C. 2

D. 3

Answer: D

77. 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

78. 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

79. What is the output of the following code?

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

A. 123

B. 213

C. 142

D. 214

E. Syntax error

Answer: D, E



80. What is the pattern modifier for handling UTF-8 encoded preg\_\* functionality?

- A. e
- B. u
- C. PHP does not support UTF-8 encoded strings
- D. A pattern modifier is not needed

Answer: B

81. In the following code, which classes can be instantiated?

```
abstract class Graphics {

 abstract function draw($im, $col);

}

abstract class Point1 extends Graphics {

 public $x, $y;

}

function _construct($x, $y) {

 $this->x = $x;

 $this->y = $y;

}

function draw($im, $col) {

 ImageSetPixel($im, $this->x, $this->y, $col);

}

class Point2 extends Point1 {}

abstract class Point3 extends Point2 {}
A . Graphics
B . Point1
C . Point2
```

- D . Point3
- E . None, the code is invalid

Answer: C

82. 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

83. Which of the following filtering techniques prevents all cross-site scripting (XSS) vulnerabilities?

- A . Strip all occurrences of the string <script.
- B . Strip all occurrences of the string javascript.
- C . Enable magic\_quotes\_gpc.
- D . None of the above.

Answer: D

84. 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

85. Which of the following will NOT instantiate a Date Time object with the current timestamp?

- A. \$date= new DateTime();
- B. \$date= new DateTime('@' . time());
- C. \$date= new DateTime('now');
- D. \$date = new DateTime(time());

Answer: D

86. From your PHP application, how can you send the same header twice, but with different values?

- A. Set the second argument of the header () function to false
- B. PHP does that automatically
- C. You may only send a particular type of header once
- D. Use the header\_add() function

Answer: A

87. What is the preferred method for preventing SQL injection?

- A. Always using prepared statements for all SQL queries.
- B. Always using the available database-specific escaping functionality on all variables prior to building the SQL query.
- C. Using addslashes() to escape variables to be used in a query.
- D. Using htmlspecialchars() and the available database-specific escaping functionality to escape variables to be used in a query.

Answer: A

88. What can be said about the call to file\_get\_contents?

```
$getdata = "foo=bar";
$opts= array('http' =>array('method' => 'POST',
'header' => 'Content-type: application/x-www-form-urlencoded',
'content' => $getdata));
$context = stream_context_create($opts);
$result= file_get_contents('http://example.com/submit.php', false, $context);
```

- A. A GET request will be performed on http://example.com/submit.php
- B . A POST request will be performed on http://example.com/submit.php
- C . An error will be displayed

Answer: B

89. What is the output of the following code?

```
var dump(boolval(-1));
```

A. bool(true)

B. bool(false)

Answer: B

90. 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

91. What is the output of the following code?

```
class Number {

 private $v = 0;

 public function _construct($v) {$this->v = $v;}

 public function mul() {

 return function ($x) {return $this->v * $x;};

 }

 $one = new Number(1);

 $two= new Number(2);

 $double = $two->mul()->bindTo($one);

 echo $double(5);

 class Number {

 private $v;
```

```

private static $sv = 10;

public function _construct($v) { $this->v = $v;}

public function mul() {

return static function ($x) {

return isset($this) ? $this->v*$x: self::$sv*$x;

};

$one = new Number(1);

$two= new Number(2);

$double = $two->mul();

$x = Closure::bind($double, null, 'Number');

echo $x(5);

answer: 5

```

92. What can prevent PHP from being able to open a file on the hard drive (Choose 2)?

- A. File system permissions
- B. File is outside of open\_basedir
- C. File is inside the /tmp directory.
- D. PHP is running in CGI mode.

Answer: A, B

93. When would you use classes and when would you use namespaces?

- A. Use classes to encapsulate code and represent objects, and namespaces to avoid symbol name collisions
- B. Use classes for performance-sensitive code, and namespaces when readability matters more
- C. Use namespaces for performance-sensitive code, and classes when readability matters more
- D. Always use them; namespaces are always superior to classes

Answer: A

94. 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

95. 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

96. What is the output of the following code?

```
class test {

}

public $value= 0;

function test() {

 $this->value = 1;

}

function _construct() {

 $this->value = 2;

 $object = new test();

 echo $object->value;
}
```

A. 2

- B. 1
- C. 0
- D. 3
- E. No Output, PHP will generate an error message.

Answer: A

97. What is the result of the following code?

```
class T

 const A = 42 + 1;

}
```

echo T::A;

- A. 42
- B. 43
- C. Parse error

Answer: C

98. 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

99. What is the output of the following code?

```
class A {

 public $a= 1;

 public function _construct($a) { $this->a = $a; }

 public function mul() {

 }
}
```

```

return function($x) {

return $this->a*$x;

};

$a= new A(2);

$a->mul = function($x) {

return $x*$x;

};

$m = $a->mul();

```

echo \$m(3);

A. 9

B. 6

C. 0

D. 3

Answer: B

**100.** What is the output of the following code?

```
function ratio ($x1 = 10, $x2)
```

```
{
```

```
}
```

```
if (isset ($x2)) {
```

```
return $x2 / $x1;
```

```
echo ratio (0);
```

A. 0

B. An integer overflow error

C. A warning, because \$x1 is not set

D. A warning, because \$x2 is not set

E. A floating-point overflow error



F. Nothing

Answer: D What will the \$array array contain at the end of this script?

```
function modifyArray (&$array)
```

```
{
```

```
for each ($array as &$amp;value)
```

```
{
```

```
 $value= $value+ 1;
```

```
}
```

```
 $value= $value+ 2;
```

```
}
```

```
$array= array (1, 2, 3);
```

```
modifyArray($array);
```

A . 2, 3, 4

B . 2, 3, 6

C . 4, 5, 6

D . 1, 2, 3

Answer: B ( A)

101. 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

102. Consider 3 PHP files that are called asynchronously via XmlHttpRequest:

```
// s1.php
session_start();
sleep(1);
```

```
// s2.php
session_start();
sleep(2);
```

```
// s3.php
session_start();
sleep(3);
```

Which of the following statements is true? (Choose two.)

- A . The total execution time for all 3 requests will be the maximum of the longest sleep() call
- B . The requests may be processed out of order
- C . The requests are guaranteed to be executed in order
- D . Concurrent requests will be blocked until the session lock is released

answer: A

103. When a class is defined as final it:

- A . Can no longer be extended by other classes.
- B . Means methods in the class are not over-loadable.
- C . Cannot be defined as such, final is only applicable to object methods.
- D . Cannot be instantiated.

Answer: A

104. 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

105. What is the output of the following code?

```
function z($x) {

 return function ($y) use ($x) {

 return str_repeat($y, $x);

 };

 $a= z(2);

 $b = z(3);
```

```
 echo $a (3). $b (2);
```

- A. 22333
- B. 33222
- C. 33322
- D. 222333

Answer: B

106. What is the output of the following code?

```
$a= array('a', 'b'=>'c');

echo property_exists((object) $a, 'a')?'true':'false';

echo'- ';
```

```
echo property_exists((object) $a, 'b')?'true':'false';
A. false-false
B . false-true
C . true-false
D . true-true
```

Answer: C

107. Given the following DateTime objects, what can you use to compare the two dates and indicate that \$date2 is the later of the two dates?

```
$date1 = new DateTime('2014-02-03');
```

```
$date2 = new DateTime('2014-03-02');
```

A. `$date2 > $date1`

B. `$date2 < $date1`

C. `$date1->diff($date2) < 0`

D. `$date1->diff($date2) > 0`

Answer: A

108. Which of the following methods are available to limit the amount of resources available to PHP through php.ini? (Choose 2)

A. Limit the amount of memory a script can consume

B. Limit the total amount of memory PHP uses on the entire server

C. Limit the maximum execution time of a script

D. Limit the maximum number of concurrent PHP processes

E. Limit the maximum number of concurrent PHP threads

Answer: A, C

109. What change must be made to the class for the code to work as written?

```
class Magic {
```

```
}
```

```
protected $v = array("a" => 1, "b" => 2, "c" => 3);
```

```
public function _get($v) {
```

```
return $this->v[$v];
```

```
$m = new Magic();
```

```
$m->d[] = 4;
```

```
echo $m->d[0];
```

A. Nothing, this code works just fine.

B. Add `_set` method doing `$this->v[$var] = $val`

C. Rewrite `_get` as: `public function _get(&$v)`

D. Rewrite `_get` as: `public function &_get($v)`

E. Make `__get` method static

Answer: D

110. 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

111. 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

112. 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

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

- A. Basic
- B. Advanced

- C. Strict
- D. Digest
- E. Realm

Answer: A, D

114. Which keyword should be used in the line marked with "KEYWORD" instead of "self" to make this code work as intended?

```
abstract class Base {

 protected function _construct() {

 }

 public static function create() {

 return new self();// KEYWORD

 abstract function action();

 class Item extends Base {

 public function action() { echo _CLASS_;}

 }

 $item= Item::create();

 $item->action(); // outputs "Item"
```

Answer: Static

115. 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

Answer: B

116. 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

117. What SimpleXML function is used to parse a file?
- A. `simplexml_load_file()`
  - B. `simplexml_load_string()`
  - C. `load()`
  - D. `loadFile()`
  - E. `loadXML()`
  - F. None of the above.

Answer: A

118. Which DOM Element property provides a reference to the list of the element's children?

Answer: `childNodes`

119. Which function can NOT help prevent cross-site scripting? (Choose 2)
- A. `addslashes()`
  - B. `htmlentities()`
  - C. `htmlspecialchars()`
  - D. `strip_tags()`
  - E. `quotemeta()`

Answer: A, E

120. What is the output of the following code?

```
$f = function () { return "hello";};
```

```
echo gettype($f);
```

A . hello

B . string

C . object

D . Function

Answer: C

121. What is the output of the following code?

```
function increment (&$val)
```

```
{
```

```
return $val + 1;
```

```
$a = 1;
```

```
echo increment ($a);
```

```
echo increment ($a);
```

Answer: 22

122. 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

123. What is the output of this code?

```

$world = 'world';

echo <<<'TEXT'

hello $world

```

- TEXT;
- A . hello world
- B . hello \$world
- C . PHP Parser error

Answer: C

124. Our application uses PHP to accept and process file uploads. It fails to upload a file that is 5 MB in size, although `upload_max_filesize` is set to "10M".

Which of the following configurations could be responsible for this outcome? (Choose 2)

- A. The PHP configuration option `post_max_size` is set to a value that is too small
- B. The web server is using an incorrect encoding as part of the HTTP response sent to the client
- C. The browser uses an incorrect encoding as part of the HTTP request sent to the server
- D. The hidden form field `MAX_FILE_SIZE` was set to a value that is too small
- E. PHP cannot process file uploads larger than 4 MB

Answer: A, D

125. Given the following code, what is correct?

```
function f(stdClass &$x = NULL) { $x = 42;}
```

```
$z = new stdClass;
```

```
f($z);
```

```
var _dump($z);
```

- A . Error: Typehints cannot be NULL
- B . Error: Typehints cannot be references
- C . Result is NU LL
- D . Result is object of type stdClass
- E . Result is 42

Answer: E

126. 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, D

127. What is the result of the following code?

```
define('PI', 3.14);
```

```
class T
```

```
{
```

```
 const PI = PI;
```

```
}
```

```
class Math
```

```
{
```

```
 const PI = T::PI;
```

```
}
```

```
echo Math::PI;
```

- A. Parse error
- B. 3.14
- C. PI
- D. T::PI

Answer: D

128. Which MIME type is always sent by a client if a JPEG file is uploaded via HTTP?

- A. image/jpeg
- B. image/jpg
- C. image/pjpeg
- D. Depends on the client system

Answer: D

129. 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

130. What is the output of the following code?

```
echo "22" + "0.2", 23. 1;
```

- A. 220.2231
- B. 22.2231
- C. 22.2,231
- D. 56.2

Answer: B

131. 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

132. Given a PHP value, which sample shows how to convert the value to JSON?

- A. `$string= json_encode($value);`
- B. `$string= Json::encode($value);`
- C. `$json = new Json($value); $string= $json-> toString();`
- D. `$value= (object) $value; $string= $value-> toJson();`

Answer: A

133. What is "instanceof" an example of?

- A. a Boolean
- B. an operator
- C. a function
- D. a language construct
- E. a class magic

Answer: B

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

- A. fgetcsv
- B. sscanf
- C. sprintf
- D. Strtok

Answer: C

135. What is the output of the following code?

```
$a= 'a'; $b = 'b';
```

```
echo isset($c)? $a.$b.$c: ($c = 'c').'d';
```

- A. abc
- B. cd
- C. 0d

Answer: B

136. Which methods can be used to overload object properties? (Choose 2)

- A. set(), get()
- B. \_set(), \_get()
- C. \_put(), \_receive(), \_exists()
- D. set(), get(), isset()
- E. \_isset(), \_unset()

Answer: B, E

137. What information can be used to reliably determine the type of an uploaded file?

- A. MIME type
- B. File name extension
- C. Contents of the file

Answer: C

138. Given a JSON-encoded string, which code sample correctly indicates how to decode the string to native PHP values?

- A. `$json = new Json($jsonValue); $value= $json->decode();`
- B. `$value= Json::decode($jsonValue);`
- C. `$value = json_decode($jsonValue);`
- D. `$value= Json::fromJson($jsonValue);`

Answer: C

139. 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

140. 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

141. Please provide the value of the \$code variable in the following statement to set an HTTP status code that

signifies that the requested resource was not found.

```
http_response_code($code);
```

Answer: 404

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

- A. LogicException
- B. RangeException
- C. DivisionByZeroError
- D. ArithmeticError

Answer: C

143. Which of the following statements about SOAP is NOT true?

- A. SOAP is also a request-/response-based protocol.
- B. SOAP can be transported using SMTP, HTTP and other protocols.
- C. SOAP requires developers to use WSD
- E. SOAP traffic via HTTP can be encrypted and compressed just like other HTTP requests.

Answer: C

144. 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

145. What is the result of the following bitwise operation in PHP?  $1 \wedge 2$

- A. 3

- B. -1
- C.2
- D.1
- E.4

Answer: A

$$5^3 = 6$$

146. Which of the following code snippets DO NOT write the exact content of the file "source.txt" to "target.txt"? (Choose 2)

- A.file\_put\_contents("target.txt", fopen("source.txt", "r"));
- B.file\_put\_contents("target.txt", file\_get\_contents("source.txt"));
- C.\$handle = fopen("target.txt", "w+"); fwrite(\$handle, file\_get\_contents("source.txt")); fclose(\$handle);
- D.file\_put\_contents("target.txt", readfile("source.txt"));
- E.file\_put\_contents("target.txt", join(file("source.txt"), "\n"));

Answer: D, E

147. What purpose do namespaces fulfill?

- A. All of the above
- B. Improved performance
- C. Alternative to classes
- D. Encapsulation

Answer: D

148. When would you use classes and when would you use namespaces?

- A. Use classes for performance-sensitive code, and namespaces when readability matters more
- B. Use namespaces for performance-sensitive code, and classes when readability matters more
- C. Always use them; namespaces are always superior to classes
- D. Use classes to encapsulate code and represent objects, and namespaces to avoid symbol name collisions

Answer: D

149. You'd like to use the class MyDBConnection that's defined in the MyGreatFramework\MyGreatDatabaseAbstractionLayer 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 MyGreatFramework\MyGreatDatabaseAbstractionLayer namespace
- C. Alias MyGreatFramework\MyGreatDatabaseAbstractionLayer\MyDBConnection to a shorter name
- D.Alias MyGreatFramework\MyGreatDatabaseAbstractionLayer to a shorter name

Answer: A

150. What would be the output of the following code? namespace MyFramework\DB; class MyClass {static function myName() {return \_\_METHOD\_\_;}} print MyClass::myName();

- A.MyFramework\DB\myName
- B.MyFramework\DB\MyClass\myName
- C. MyFramework\DB\MyClass::myName
- D.MyClass::myName

Answer: C

151. Consider the following two files. When you run test.php, what would the output look like?

test.php: include "MyString.php";  
 print ",";  
 print strlen("Hello world!");  
 MyString.php: namespace MyFramework\String;

```
function strlen($str) {

 return \strlen($str)*2; // return double the string length

}
```

print strlen("Hello world!")

- A.PHP Fatal error: Cannot redeclare strlen()
- B.12,24
- C.12,12
- D.24,12
- E.24,24

Answer: D

152. Which line of code can be used to replace the INSERT comment in order to output "hello"?

```
class C {
 public $ello = 'ello';
 public $c;
 public $m;
```

```

function __construct($y) {
$this->c = static;
function($f) {
// INSERT LINE OF CODE HERE

};
$this->m = function() {
return "h";
};
}
}
}
$х= new C("h");
$f = $х->c;
echo $f($х->m);

```

- A. return \$this->m() . "ello";
- B. return \$f() . "ello";
- C. return "h". \$this->ello;
- D. return \$y . "ello";

Answer: B

153. 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. spl\_same\_object
- B. spl\_object\_hash
- C. SplString
- D. SplFixedArray
- E. SplObjectStorage

Answer: B, E

154. 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

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

- A. Creating an iterable object

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

Answer: B, C, E

156. Consider the following code. What change must be made to the class for the code to work as written?

```
class Magic {
 protected $v = array ("a" => 1, "b" => 2, "c" => 3);
 public function __get($v) {
 return $this->v[$v];
 }
}

$m = new Magic();
$m->d[] = 4;

echo $m->d[0];
```

- A. Nothing, this code works just fine.
- B. Add \_\_set method doing \$this->v[\$var] = \$val
- C. Rewrite \_\_get as: public function \_\_get(&\$v)
- D. Rewrite \_\_get as: public function &\_\_get(\$v)
- E. Make \_\_get method static

Answer: D

157. 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
- B. ArrayAccess
- C. \_\_get/\_\_set
- D. Iterator

Answer: A

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

- A. 3XX
- B. 4XX

C. 5xx

Answer: A

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

- A. 2XX
- B. 3XX
- C. 4XX
- D. 5XX

Answer: D

160. Under what condition may HTTP headers be set from PHP if there is content echoed prior to the header function being used?

- A. The client supports local buffering
- B. The webserver uses preemptive mode
- C. headers\_sent() returns true
- D. Output buffering is enabled

Answer: D

161. Before the headers are sent, how can you remove a previously set header?

- A. Use the header\_remove() function, providing the name of the header
- B. Use the die() function to abort the PHP script
- C. Not possible
- D. Use the headers\_list() function, providing the name of the header as the second argument

Answer: A

162. 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

163. Which of the following is true about stream contexts? (Choose 2)

- A. Contexts are created with new Stream\_Context();
- B. A context is a set of parameters and stream wrapper specific options
- C. A context can modify or enhance the behavior of a stream
- D. A context indicates what session the stream is part of

Answer: B, C

164. What is the output of the following code? `var_dump(boolval(-1));`

- A. `bool(false)`
- B. `bool(true)`

Answer: B

165. What is the output of the following code? `var_dump(boolval([]));`

- A. `bool(true)`
- B. `bool(false)`

Answer: B

166. What is the output of the following code? `var_dump(boolval(new stdClass()));`

- A. `bool(false)`
- B. `bool(true)`

Answer: B

167. Which of the following is NOT true about PHP traits? (Choose 2)

- A. A trait can implement an interface.
- B. A trait can declare a private variable.
- C. Traits are able to be auto-loaded.
- D. Traits automatically resolve conflicts based on definition order.
- E. Multiple traits can be used by a single class.

Answer: A, D

168. In the following code, which line should be changed so it outputs the number 2:

```
class A {
 /* A */
 protected $x = array();

 public function getX() {
 /* B */
 return $this->x;
 /* C */
 }
}
```

```

 }
 }
 $a = new A();
/* D */
 array_push($a->getX(), "one");
 array_push($a->getX(), "two");
 echo count($a->getX());

```

- A. No changes needed, the code would output 2 as is
- B. Line A, to: `protected &$x = array();`
- C. Line B, to: `public function &getX() {`
- D. Line C, to: `return &$this->x;`
- E. Line D, to: `$a =& new A();`

Answer: C

169. 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

170. 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

171. 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, E

172. What is the output of the following code?

```
namespace MyNamespace;
Class Test{
}
echo Test::Class;
```

- A. MyNamespaceTest
- B. empty string
- C. parse error
- D. Test

Answer: B

173. 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, D

174. 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

175. 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 5.3+
- C. Reflection only allows to reflect on built-in classes

D. Built-in classes can be reflected on command line using `php -rc <classname>`

Answer: D

176. 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

177. Which function can NOT help prevent cross-site scripting? (Choose 2)

- A. `htmlentities()`
- B. `quotemeta()`
- C. `htmlspecialchars()`
- D. `addslashes()`
- E. `strip_tags()`

Answer: B, D

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

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

Answer: B, C

179. 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



180. Consider the following XML code:

```
<?xml version="1.0" encoding="utf-8"?>
<books>
<bookid="1">PHP 5.5 in 42 Hours</book>
<book id="2">Learning PHP 5.5 The Hard Way</book>
</books>
```

Which of the following SimpleXML calls prints the name of the second book?  
(Let \$xml = simplexml\_load\_file("books.xml")) (Choose 2)

- A. echo \$xml->books->book[2];
- B. \$c = \$xml->children(); echo \$c[1];
- C. echo \$xml->xpath("/books/book[@id=2]");
- D. echo \$xml->books->book[1];
- E. echo \$xml->book[1];

Answer: B, E

181. Which DOMElement property provides a reference to the list of the element's children?

Answer: childNodes

182. 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 DTD.
- D. It may only contain UTF-8 encoded characters.

Answer: A, B

183. Which of the following can be registered as entry points with a SoapServer instance (choose 2):

- A. A single function
- B. A single method from a class
- C. All methods from a class
- D. All classes defined in a script

Answer: A, C

184. 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->document->bar->foo

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

Answer: D

185. What parsing methodology is utilized by the SimpleXML extension?

Answer: DOM

186. How can the id attribute of the 2nd baz element from the XML string below be retrieved from the SimpleXML object found inside `$xml`?

```
<?xml version='1.0'?> <foo> <bar> <baz id="1">One</baz> <baz id="2">Two</baz>
</bar></foo>
```

- A. `$xml->foo->bar->baz[2]['id']`
- B. `$xml->bar->baz[1]['id']`
- C. `$xml->foo->baz[2]['id']`
- D. `$xml->getElementById('2');`
- E. `$xml->foo->bar->baz[1]['id']`

Answer: B

187. How can a SimpleXML object be converted to a DOM object?

- A. None of the above.
- B. `dom_import_simplexml()`
- C. `dom_export_simplexml()`
- D. `simplexml_import_dom()`
- E. `SimpleXML2Dom()`

Answer: B

188. After performing the following operations: `$a = array('a', 'b', 'c');` `$a = array_keys(array_flip($a));` What will be the value of `$a`?

- A. None of the above
- B. `array('a', 'b', 'c')`
- C. `array('c', 'b', 'a')`
- D. `array(2, 1, 0)`

Answer: B

NB: The **array\_flip()** function flips/exchanges all keys with their associated values in an array.

189. PHP's array functions such as `array_values()` can be used on an object if the object...

- A. implements Traversable
- B. is an instance of ArrayObject
- C. implements ArrayAccess
- D. None of the above

Answer: D

190. Which is the most efficient way to determine if a key is present in an array, assuming the array has no NULL values?

- A. `in_array('key', array_keys($a))`
- B. `isset($a['key'])`
- C. `array_key_exists('key', $a)`
- D. None of the above

Answer: B

191. What will be the result of the following operation? `array_combine(array("A","B","C"), array(1,2,3));`

- A. `array(1,2,3,"A","B","C")`
- B. `array("A"=>1,"B"=>2,"C"=>3)`
- C. `array(1=>"A",2=>"B",3=>"C")`
- D. `array(1,2,3)`
- E. `array("A","B","C",1,2,3)`

Answer: B

`array_combine()`

NB: Create an array by using the elements from one "keys" array and one "values" array:

192. What function can reverse the order of values in an array so that keys are preserved?

- A. `array_flip()`
- B. `array_multisort()`
- C. `krsort()`
- D. `array_reverse()`

E. `rsort()`

Answer: D

193. What will be the output value of the following code?

```
$array = array(1,2,3);
while (list(,$v) =each($array));
var_dump(current($array));
```

A. `bool(false)`

B. `int(3)`

C. `int(1)`

D. `NULL`

E. `Array`

Answer: A

194. What will be the output of the following code?

```
$a = array(0, 1, 2 => array(3, 4));
$a[3] = array(4, 5);
```

```
echo count($a, 1);
```

A. 4

B. 5

C. 8

D. None of the above

Answer: C

NB: **mode** If the optional **mode** parameter is set to **COUNT\_RECURSIVE** (or 1), `count()` will recursively count the array. This is particularly useful for counting all the elements of a multidimensional array.

195. 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

196. Which parts of the text are matched in the following regular expression?

```
$text = <<<EOT
 The big bang bonged under the bung.
EOT;
preg_match_all('@b.n?g@', $text, $matches);
```

- A. bang bong bung
- B. bang bonged bung
- C. big bang bong bung
- D. big bang bung

Answer: C

197. You want to parse a URL into its single parts. Which function do you choose?

- A. parse\_url()
- B. url\_parse()
- C. get\_url\_parts()
- D. geturlparts()

Answer: A

198. 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

199. What is the output of the following code? `echo 0x33, ' monkeys sit on ', 011, ' trees.';`

- A. 33 monkeys sit on 11 trees.
- B. 51 monkeys sit on 9 trees.
- C. monkeys sit on trees.
- D. 0x33 monkeys sit on 011 trees.

Answer: B

200. You want to access the 3rd character of a string, contained in the variable \$test. Which of the following possibilities work? (Choose 2)

- A. `echo $test(3);`
- B. `echo $test[2];`
- C. `echo $test(2);`

- D. echo \$test{2};
- E. echo \$test{3};

Answer: B, D

201. Which sentence describes the following regular expression match?  
`preg_match('/^d+(?:\.[0-9]+)?$/',$test);`

- A. It matches any string.
- B. It does not match anything
- C. It matches float numbers without thousand separators.
- D. It matches float numbers with thousand separators.
- E. It matches binary integer numbers.

Answer: C

202. You need to escape special characters to use user input inside a regular expression.  
Which functions would you use? (Choose 2)

- A. `htmlentities()`
- B. `preg_quote()`
- C. `regex_quote()`
- D. `quote_meta()`
- E. `addslashes()`

Answer: B, D

203. 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. 3
- B. 9
- C. 4
- D. 2
- E. 7

Answer: E

204. What is the return value of the following code? `strpos("me myself and I", "m", 2)`

Answer: C. 3

NB: The **strpos()** function finds the position of the first occurrence of a string inside another

string.

2= Where start from

205. What is the return value of the following code: `substr_compare("foobar", "bar", 3);`

Answer: D, 0

```
substr_compare(
 string $haystack,
 string $needle,
 int $offset,
 ?int $length = null,
 bool $case_insensitive = false
): int
```

`substr_compare()` compares **haystack** from position **offset** with **needle** up to **length** characters.

206. How many elements does the array `$pieces` contain after the following piece of code has been executed? `$pieces = explode("/", "///");`

- A. 0
- B. 5
- C. 3
- D. 4

Answer: D

207. Which string will be returned by the following function call? `$test = '/etc/conf.d/wireless'; substr($test, strrpos($test, '/'));` // note that `strrpos()` is being called, and not `strpos()`

- A. ""
- B. "/wireless"
- C. "wireless"
- D. "/conf.d/wireless"
- E. "/etc"

Answer: B

208. An HTML form contains this form element: `<input type="file" name="myFile" />` When this form is submitted, the following PHP code gets executed: `move_uploaded_file($_FILES['myFile']['tmp_name'], 'uploads/' . $_FILES['myFile']['name'] );` Which of the

following actions must be taken before this code may go into production? (Choose 2)

- A. Check with `is_uploaded_file()` whether the uploaded file `$_FILES['myFile']['tmp_name']` is valid
- B. Sanitize the file name in `$_FILES['myFile']['name']` because this value is not consistent among web browsers
- C. Check the charset encoding of the HTTP request to see whether it matches the encoding of the uploaded file
- D. Sanitize the file name in `$_FILES['myFile']['name']` because this value could be forged
- E. Use `$HTTP_POST_FILES` instead of `$_FILES` to maintain upwards compatibility

Answer: B,D

209. Which PHP function retrieves a list of HTTP headers that have been sent as part of the HTTP response or are ready to be sent?

- A. `headers()`
- B. `getresponseheaders()`
- C. `header()`
- D. `headers_sent()`
- E. `headers_list()`

Answer: E

210. The following form is loaded in a browser and submitted, with the checkbox activated:

```
<form
method="post"> <input type="checkbox" name="accept" /> </form>
```

In the server-side PHP code to deal with the form data, what is the value of `$_POST['accept']` ?

- A. `accept`
- B. `ok`
- C. `true`
- D. `on`

Answer: D

211. When uploading a file to a PHP script using the HTTP PUT method, where would the file data be found?

- A. the global variable scope
- B. the `$_FILES` super-global
- C. the input stream `php://input`
- D. the `$_POST` super-global

Answer: C

212. Please provide the name of the super-global variable where all the information about cookies is available.



Answer: \$\_COOKIE, \$\_COOKIE[], \_COOKIE, \_COOKIE[]

213.