# PHP Zend Certified Engineer

**Sections**
1. A

**Exam A**

**QUESTION 1**
Which of the following parts must a 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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 2**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 3**
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();`

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

## QUESTION 4
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

## QUESTION 5
What is the output of the following code?

```
var_dump(boolval(new StdClass()));
```

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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

## QUESTION 6

Which of the following superglobals does not necessarily contain data from the client?

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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 7**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 8**
Which of the following statements is NOT correct?

A. Only methods can have type declarations
B. Type declarations can be optional
C. Type declarations can be references

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 9**
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.

**QUESTION 10**
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

**QUESTION 11**
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

**QUESTION 12**
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 const

**QUESTION 13**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**
позволяет изменять размер буфера записи файлов

## QUESTION 14

How many elements does the $matches array contain after the following function call is performed?

```
preg_match('/^(\d{1,2}([a-z]+))(?:\s*)\S+ (?=201[0-9])/', '21st
March 2014', $matches);
```

A. 1

B. 2

C. 3

D. 4

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 15

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.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 16**
What is the output of the following code?

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

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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 17**
After performing the following operations:

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

What will be the value of $a?

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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 18**
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

**Correct Answer:** B
**Section: A**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 20**
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();
   }

**Correct Answer:** BC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 21**
Which of the following expressions will evaluate to a random value from an array below?

```
$array = array("Sue","Mary","John","Anna");
```

A. `array_rand($array);`
B. `array_rand($array, 1);`

```
C. shuffle($array);
D. $array[array_rand($array)];
E. array_values($array, ARRAY_RANDOM);
```

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 22**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 23**
Which sentence describes the following regular expression match?

```
preg_match('/^\d+(?:\.[0-9]+)?$/', $test);
```


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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 24**
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()

**Correct Answer:** A
**Section: A**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**
What is the output of the following code?

```
$string = 'Good luck!';
$start = 10;
var_dump(substr($string, $start));
```

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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 26**
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.

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 27**
Consider the following code. 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"
```

**Correct Answer:** static
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 28**
Which DOMElement property provides a reference to the list of the element's children?


**Correct Answer:** childNodes
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 29**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


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


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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 31**
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 insteadof 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 renameto helloA;`
E.  None of the above (both can be used directly)

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**
```
class test {
    use A, B {
        B::hello insteadof A;
        A::hello as blablaA;
    }
}
```

**QUESTION 32**
What is the output of the following code?

```
for ($i = 0; $i < 1.02; $i += 0.17) {
  $a[$i] = $i;
}

echo count($a);
```

A.  0
B.  1
C.  2
D.  6

E. 7

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 33**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 34**
What is the output of the following code?

```
var_dump(boolval(-1));
```

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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 35**
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.

**Correct Answer:** D
**Section: A**
**Explanation**

**QUESTION 36**
An object can be counted with count() and sizeof() if it...

A. implements ArrayAccess
B. has a public __count() method
C. was cast to an object from an array
D. None of the above

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 37**
Which PHP function sets a cookie and URL encodes its value when sending it to the browser?

**Correct Answer:** setcookie -or- setcookie()
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 38**
Which of the following is an invalid DOM save method?

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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 39**
What is the output of the following code?

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

$val = 1;
increment ($val);
echo $val;
```

**Correct Answer:** 1
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 40**
What is the output of the following code?

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

**Correct Answer:** 22.2231
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 41**
Given a DateTime object that is set to the first second of the year 2014, which of the following samples will correctly return a date in the format '2014-01-01 00:00:01'?

```
A. $datetime->format('%Y-%m-%d %h:%i:%s')
B. $datetime->format('%Y-%m-%d %h:%i:%s', array('year', 'month',
   'day', 'hour', 'minute', 'second'))
C. $datetime->format('Y-m-d H:i:s')
D. $date = date('Y-m-d H:i:s', $datetime);
```

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 42**
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.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 43**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 44**
Which constant must be passed as the second argument to htmlentities() to convert single quotes (') to HTML entities?


A. TRUE
B. FALSE
C. ENT_QUOTES
D. ENT_NOQUOTES
E. ENT_COMPAT

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 45**
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()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 46**
Which one of the following XML declarations is NOT valid?


A. `<?xml version="1.0" ?>`
B. `<?xml version="1.1" encoding="UTF-8" ?>`

C. `<?xml standalone="no" ?>`
D. `<?xml standalone="1" ?>`

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 47
What will be the result of the following operation?

```
array_combine(array("A","B","C"), array(1,2,3));
```

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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 48
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

**Correct Answer:** BD
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 49**
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()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**
**Warnung**
This feature has been *DEPRECATED* as of PHP 7.2.0. Relying on this feature is highly discouraged.
http://php.net/manual/de/function.autoload.php

**QUESTION 50**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 51**
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`

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 52
Which class of HTTP status codes is used for server error conditions?


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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**
1xx – Informationen
2xx – Erfolgreiche Operation
3xx – Umleitung
4xx – Client-Fehler
5xx – Server-Fehler
9xx – Proprietäre Fehler

## QUESTION 53
An HTML form contains this form element:

```
<input type="image" name="myImage" src="image.png /">
```

The user clicks on the image to submit the form. How can you now access the relative coordinates of the mouse click?


A. $_FILES['myImage']['x'] and $_FILES['myImage']['y']
B. $_POST['myImage']['x'] and $_POST['myImage']['y']
C. $_POST['myImage.x'] and $_POST['myImage.y']
D. $_POST['myImage_x'] and $_POST['myImage_y']

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**
//test.php:

```
<?php
 var_dump($_POST);
?>

<form action="test.php" method="post">
 <input type="text" name="name" /><br>
 <input type="image" name="myImage" src="image.jpg" />
</form>
```

**QUESTION 54**
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.

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 55**
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

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 56**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 57**
What is the output of the following code?

```
class Test {
  public function __call($name, $args) {
      call_user_func_array(array('static', "test$name"), $args);
  }
  public function testS($l) {
```

```
        echo "$l,";
    }
}

class Test2 extends Test {
  public function testS($l) {
      echo "$l,$l,";
    }
}

$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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 58**
What is the output of the following code?

```
$a = [1 => 'Apple', 3 => 'Cactus', 5 => 'Elderflower'] +
     ['Banana', 'Dragon Fruit', 'Fig'];

echo count($a);
```

**Correct Answer:** 5
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 59**
What is the name of the key for the element in $_FILES['name'] that contains the provisional name of the
uploaded file?

**Correct Answer:** tmp_name
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 60**
How can a SimpleXML object be converted to a DOM object?

A.  dom_import_simplexml()

B. dom_export_simplexml()

C. simplexml_import_dom()

D. SimpleXML2Dom()

E. None of the above.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 61**
What is the output of the following code?

```
try {
  class MyException extends Exception {};
  try {
    throw new MyException;
  }
  catch (Exception $e) {
    echo "1:";
    throw $e;
  }
  catch (MyException $e) {
    echo "2:";
    throw $e;
  }
}
catch (Exception $e) {
  echo get_class($e);
}
```

A. A parser error, try cannot be followed by multiple catch

B. 1:

C. 2:

D. 1:Exception

E. 1:MyException

F. 2:MyException

G. MyException

**Correct Answer:** E
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 62**
What is the output of this code?

```
$world = 'world';
echo<<<'TEXT'
hello $world
TEXT;
```

A. hello world
B. hello $world
C. PHP Parser error

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 63**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 64**
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

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 65**
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);
```

**Correct Answer:** 5
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 66**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 67**
Assuming UTF-8 encoding, what is the value of $count?

```
$data = '$la2';
$count = strlen($data);
```


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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 68**
When uploading a file to a PHP script using the HTTP PUT method, where would the file data be found?


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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 69**
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();

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 70**
Which PHP function sets a cookie whose value does not get URL encoded when sending it to the browser?


**Correct Answer:** setrawcookie -or- setrawcookie()
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 71**
Which value will be assigned to the key 0 in the following code?

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


**Correct Answer:** true
**Section: A**

**QUESTION 72**

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()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 73**

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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 74**

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


A. PHPIterator

B. RecursiveTreeIterator

C. RecursiveDirectoryIterator

D. SplTempFileObject

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 75**

What DOM method is used to load HTML files?

A. load()
B. loadXML()
C. loadHTML()
D. loadHTMLFile()

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 76**
What is the name of the key in $_FILES['name'] that contains the number of bytes of the uploaded file?

**Correct Answer:** size
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 77**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 78**
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

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 79**

Your 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

**Correct Answer:** AD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 80**
What is the length of a string returned by:

```
md5(rand(), TRUE);
```

A. Depends on the value returned by rand() function
B. 32
C. 24
D. 16
E. 64

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 81**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 82**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 83**
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

**Correct Answer:** AD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 84**
What is the output of the following code?

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

A. hello
B. string
C. object
D. function

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 85**
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. header()
B. headers()
C. headers_list()
D. headers_sent()
E. getresponseheaders()

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 86**
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.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 87**
What is the output of the following code?

```
function increment (&$val) {
  return $val + 1;
}

$a = 1;
echo increment($a);
echo increment($a);
```

**Correct Answer:** 22
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 88**
What is the result of the following code?

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

class T {
  const PI = PI;
}
```

```php
class Math {
  const PI = T::PI;
}

echo Math::PI;
```

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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 89**
What is cached by an opcode cache?

A. Compiled PHP code
B. Native PHP extensions
C. Data sent to the client
D. Data received from the database

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 90**
What is the output of the following code?

```php
namespace MyNamespace;

class Test {
}

echo Test::class;
```

A. MyNamespace\Test
B. empty string
C. parse error
D. Test

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 91**
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"

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 92**
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.

**Correct Answer:** BE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 93**
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

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 94**
What is the return value of the following code?

```
strpos("me myself and I", "m", 2);
```

A. 2
B. 3
C. 4
D. 0
E. 1

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 95**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 96**
When a browser requests an image identified by an img tag, it never sends a Cookie header.

A. TRUE
B. FALSE

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 97**
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.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 98**
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

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 99**
What method can be used to find the tag <any> via the DOM extension?

A. getElementById()

B. getElementsByTagName()

C. getElementsByTagNameNS()

D. getElementByName()

E. findTag()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 100**
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->getElementById('2');
B. $xml->foo->bar->baz[2]['id']
C. $xml->foo->baz[2]['id']
D. $xml->foo->bar->baz[1]['id']
E. $xml->bar->baz[1]['id']

**Correct Answer:** E
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 101**
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

**Correct Answer:** C
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 102**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 103**
The following form is loaded in a recent browser and submitted, with the second select option selected:

```
<form method="post">
  <select name="list">
    <option>one</option>
    <option>two</option>
    <option>three</option>
  </select>
</form>
```

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

A. 1
B. 2
C. two
D. null

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 104**
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

**Correct Answer:** ADF
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 105**
Which of the following will set a 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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 106**
In a shared hosting environment, session data can be read by PHP scripts written by any user. How can you prevent this? (Choose 2)


A. Store session data in a different location with session_save_path
B. Store session data in a database.
C. Enable safe_mode
D. Set session.name to something unique.

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 107**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 108**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 109**
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.

**Correct Answer:** DE
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 110**
What will the following function call print?

```
printf('%010.6f', 22);
```

A. 22
B. 22.00
C. 022.000000
D. 22.000000

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 111
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 112
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


## QUESTION 113
Which of the following PHP values may NOT be encoded to a JavaScript literal using PHP's ext/json

capabilities?

A. 'Hello, world!'
B. function(){ alert("Hello, world!"); }
C. array('Hello, world!')
D. array('message' => 'Hello, world!')

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

## QUESTION 114
What is the output of the following code?

```
class Test {
  public $var = 1;
}

function addMe(Test $t) {
  $t->var++;
}

$t = new Test();
addMe($t);
echo $t->var;
```

A. 1
B. 2
C. null

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

## QUESTION 115
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 116**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 117**
Which SPL class implements fixed-size storage?

**Correct Answer:** SplFixedArray
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 118**
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 of functions
C. Adding class methods
D. Implement dynamic construction (new with variable class name)

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 119**
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

**Correct Answer:** B

**QUESTION 120**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 121**
What is the output of the following code?

```
function increment ($val) {
   $_GET['m'] = (int) $_GET['m'] + 1;
}

$_GET['m'] = 1;
echo $_GET['m'];
```

**Correct Answer:** 1
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 122**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 123**
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()

**Correct Answer:** BE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 124**
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 0.
D. Protect against XSS vulnerabilities in the application.
E. Rotate the session id on successful login and logout using session_regenerate_id()

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 125**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 126**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 127**
What is the output of the following code?

```
$text = 'This is text';

$text1 = <<<'TEXT'
$text
TEXT;

$text2 = <<<TEXT
$text1
TEXT;

echo "$text2";
```

A. This is text
B. $text
C. $text1
D. $text2

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**
```
$text = 'This is text';

// $text1 = '$text';
$text1 = <<<'TEXT'
$text
TEXT;

// $text2 = $text1;
$text2 = <<<TEXT
$text1
TEXT;
```

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

**QUESTION 128**
What is the output of the following code?

```
class Bar {
  private $a = 'b';
  public $c = 'd';
}

$x = (array) new Bar();
echo array_key_exists('a', $x) ? 'true' : 'false';
echo '-';
echo array_key_exists('c', $x) ? 'true' : 'false';
```

A. false-false
B. false-true
C. true-false
D. true-true

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 129**
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];

**Correct Answer:** CE
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 130**
Which of the following statements is true?

A. All PHP database extensions support prepared statements
B. All PHP database extensions come with their own special helper functions to escape user data to be used in dynamic SQL queries
C. All PHP database extensions provide an OOP interface
D. All PHP database extensions appear in the output of php -m , if installed and enabled

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 131**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 132**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**QUESTION 133**
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?

**Correct Answer:** allow_url_fopen -or- allow_url_fopen=off -or- allow_url_fopen=Off -or- allow_url_fopen = off -or- allow_url_fopen = Off
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 134**
Which of the following statements is correct?
(Choose 2)

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

**Correct Answer:** BC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 135**
How many times will the function counter() be executed in the following code?

```
function counter($start, &$stop) {
  if ($stop > $start) {
    return;
  }

  counter($start--, ++$stop);
}

$start = 5;
$stop = 2;
counter($start, $stop);
```

A. 3
B. 4
C. 5
D. 6

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 136**
You want to allow your users to submit HTML code in a form, which will then be displayed as real code and not affect your page layout. Which function do you apply to the text, when displaying it?
(Choose 2)

A. `strip_tags()`
B. `htmlentities()`
C. `htmltidy()`
D. `htmlspecialchars()`
E. `showhtml()`

**Correct Answer:** BD
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 137**
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().

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 138**
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()

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 139**
Which of the following functions are used to escape data within the context of HTML?
(Choose 2)

A. htmlentities()
B. addslashes()
C. stripslashes()
D. strip_tags()
E. htmlspecialchars()

**Correct Answer:** AE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 140**
Which class of HTTP status codes is used for redirections?


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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 141**
What types of HTTP authentication are supported by PHP? (Choose 2)


A. Basic
B. Advanced
C. Strict
D. Digest
E. Realm

**Correct Answer:** AD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 142**
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

**Correct Answer:** C

**QUESTION 143**
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

**Correct Answer:** BC
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 144**
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();`

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 145**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 146**
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

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 147**
Which of the following items in the $_SERVER superglobal are important for authenticating the client when using HTTP Basic authentication? (Choose 2)

A. PHP_AUTH_TYPE
B. PHP_AUTH_PASSWORD
C. PHP_AUTH_DIGEST
D. PHP_AUTH_PW
E. PHP_AUTH_USER

**Correct Answer:** DE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 148**
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?

**Correct Answer:** move_uploaded_file() -or- move_uploaded_file
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 149**
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

**Correct Answer:** D
**Section: A**

**QUESTION 150**
What is the output of the following code?

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

A. 123
B. 213
C. 142
D. 214
E. Syntax error

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 151**
What will the following code piece print?

```
echo strtr('Apples and bananas', 'ae', 'ea');
```

A. Applas end benenes
B. Epplas end benenes
C. Apples and bananas
D. Applas end bananas

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 152**
What is the output of the following code?

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

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

**Correct Answer:** A
**Section: A**
**Explanation**

**QUESTION 153**
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()

**Correct Answer:** AE
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 154**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 155**
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.

**Correct Answer:** ?:
**Section: A**

Since PHP 5.3, it is possible to leave out the middle part of the ternary operator. Expression *expr1 ?: expr3* returns expr1 if expr1 evaluates to **TRUE**, and expr3 otherwise.

**QUESTION 156**
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 "h". $this->ello;
D. return $y . "ello";

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 157**
What will the $array array contain at the end of this script?

```
function modifyArray (&$array) {

  foreach ($array as &$value) {
    $value = $value + 1;
  }

  $value = $value + 2;
}

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

```
print_r($array);
```

A. 2, 3, 4
B. 2, 3, 6
C. 4, 5, 6
D. 1, 2 ,3

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 158**
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.

**Correct Answer:** CD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 159**
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.

**Correct Answer:** AE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 160**
What is the result of the following bitwise operation in PHP?

1 ^ 2


A. 1
B. 3
C. 2
D. 4

E. -1

**Correct Answer:** B
**Section:** A
**Explanation**

**Explanation/Reference:**


**QUESTION 161**
You want to access the 3rd character of a string, contained in the variable $test. Which of the following possibilites work? (Choose 2)


A. echo $test(3);
B. echo $test[2];
C. echo $test(2);
D. echo $test{2};
E. echo $test{3};

**Correct Answer:** BD
**Section:** A
**Explanation**

**Explanation/Reference:**


**QUESTION 162**
What parsing methodology is utilized by the SimpleXML extension?


A. SAX
B. DOM
C. XPath
D. Push/Pull Approach
E. Expat

**Correct Answer:** B
**Section:** A
**Explanation**

**Explanation/Reference:**


**QUESTION 163**
Given the following array:

$a = array(28, 15, 77, 43);

Which function will remove the value 28 from $a?


A. array_shift()
B. array_pop()
C. array_pull()
D. array_unshift()

**Correct Answer:** A
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 164**
Consider the following code. 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

**Correct Answer:** B
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 165**
What is the output of the following code?

```
class Foo Implements ArrayAccess {
  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

**Correct Answer:** B
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 166**

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


A. addslashes()
B. htmlentities()
C. preg_quote()
D. regex_quote()
E. quotemeta()

**Correct Answer:** CE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 167**
What function can reverse the order of values in an array so that keys are preserved?


A. array_flip()
B. array_reverse()
C. rsort()
D. krsort()
E. array_multisort()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 168**
Which of the following filtering techniques prevents all cross-site scripting (XSS) vulnerabilities?


A. Strip all occurrences of the string &lt;script.
B. Strip all occurrences of the string javascript.
C. Enable magic_quotes_gpc.
D. None of the above.

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 169**
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 WSDL.
D. SOAP traffic via HTTP can be encrypted and compressed just like other HTTP requests.

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 170**
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.

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 171**
What DOMElement method should be used to check for availability of a non-namespaced attribute?

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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 172**
Consider the following table data and PHP code, and assume that the database supports transactions.
What is the outcome?
Table data (table name "users" with primary key "id"):

```
  id       name               email
-------  -----------  --------------------
   1       anna         alpha@example.com
   2       betty        beta@example.org
   3       clara        gamma@example.net
   5       sue          sigma@example.info
```

PHP code (assume the PDO connection is correctly established):

```
$dsn = 'mysql:host=localhost;dbname=exam';
$user = 'username';
$pass = '********';
$pdo = new PDO($dsn, $user, $pass);
```

```
try {
  $pdo->exec("INSERT INTO users (id, name, email) VALUES (6,
'bill', 'delta@example.com')");
  $pdo->begin();
  $pdo->exec("INSERT INTO users (id, name, email) VALUES (7,
'john', 'epsilon@example.com')");
  throw new Exception();
} catch (Exception $e) {
    $pdo->rollBack();
  }
```

A. The user 'bill' will be inserted, but the user 'john' will not be.
B. Both user 'bill' and user 'john' will be inserted.
C. Neither user 'bill' nor user 'john' will be inserted.
D. The user 'bill' will not be inserted, but the user 'john' will be.

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 173**
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);
```

**Correct Answer:** 404 -or- 404 Not Found
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 174**
One common security risk is exposing error messages directly in the browser. Which PHP configuration
directive can be disabled to prevent this?


A. html_display
B. error_reporting
C. display_errors
D. error_log
E. ignore_repeated_errors

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 175**
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.

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 176**
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 whoami() {
    echo "A ";
  }
}

class B extends A {
  public static function whoami() {
    echo "B ";
  }
}

B::test();
```

A. B B B B B
B. Base A Base A B
C. Base B B A B
D. Base B A A B

**Correct Answer:** C

**Explanation/Reference:**


**QUESTION 177**
Which of the following statements are FALSE?


A. SimpleXML allows removal of attributes.
B. SimpleXML allows addition of new attributes.
C. SimpleXML allows removal of nodes.
D. SimpleXML allows addition of new nodes.
E. None of the above

**Correct Answer:** E
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 178**
What exception type will catch the error raised by the expression 2 / 0?


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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 179**
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);

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 180**
What is the difference between "print" and "echo"?

A.  There is no difference.
B.  Print has a return value, echo does not
C.  Echo has a return value, print does not
D.  Print buffers the output, while echo does not
E.  None of the above

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 181**
Which php.ini setting is usually required to use an opcode cache?

A.  extension
B.  zend_extension
C.  optimizer
D.  dl

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 182**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 183**
What is the return value of the following code:

```
substr_compare("foobar", "bar", 3);
```

A. -1
B. 1
C. TRUE
D. 0
E. FALSE

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 184**
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

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 185**
How many elements does the array $pieces contain after the following piece of code has been executed?

```
$pieces = explode("/", "///");
```

A. 0
B. 3

C. 4

D. 5

**Correct Answer:** C
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 186**
Which function can NOT help prevent cross-site scripting? (Choose 2)

A. addslashes()

B. htmlentities()

C. htmlspecialchars()

D. strip_tags()

E. quotemeta()

**Correct Answer:** AE
**Section:** A
**Explanation**

**Explanation/Reference:**

**QUESTION 187**
What is the output of the following code?

```
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);
```

A. 5

B. 10

C. 50

D. Fatal error

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 188**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 189**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 190**
Consider the following table data and PHP code. What is a possible outcome?

Table data (table name "users" with primary key "id"):

```
   id        name             email
-------  -----------  --------------------
    1        anna       alpha@example.com
    2        betty      beta@example.org
    3        clara      gamma@example.net
    5        sue        sigma@example.info
```

PHP code (assume the PDO connection is correctly established):

```php
$dsn = 'mysql:host=localhost;dbname=exam';
$user = 'username';
$pass = '********';
$pdo = new PDO($dsn, $user, $pass);

$cmd = "SELECT name, email FROM users LIMIT 1";
$stmt = $pdo->prepare($cmd);
$stmt->execute();
$result = $stmt->fetchAll(PDO::FETCH_BOTH);
$row = $result[0];
```

A.  The value of $row is `array(0 => 'anna', 1 => 'alpha@example.com')`.
B.  The value of $row is `array('name' => 'anna', 'email' => 'alpha@example.com')`.
C.  The value of $row is `array(0 => 'anna', 'name' => 'anna', 1 => 'alpha@example.com', 'email' => 'alpha@example.com')`.
D.  The value of $result is `array('anna' => 'alpha@example.com')`.

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 191**
What purpose do namespaces fulfill?


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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 192**
Which options do you have in PHP to set the expiry date of a session?


A.  Set the session.duration directive in php.ini
B.  Set session cookie expiry date locally via session_set_cookie_params()

C. Set session expiry date locally via session_cache_expire()

D. None of the above

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 193**
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.

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 194**
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 NULL

D. Result is object of type stdClass

E. Result is 42

**Correct Answer:** E
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 195**
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`

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 196**
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.

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 197**
Which of the following is NOT a requirement for file uploads to work?

A. The PHP directive file_uploads must be set to On
B. The form's method attribute must be set to "post"
C. The form must include a hidden input element with the name set to "MAX_FILE_SIZE"
D. The form's enctype attribute must be set to "multipart/form-data"

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 198**
Given the following DateTime 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);`
C. `$date->modify('-1 month');`
D. `$date->diff(new DateInterval('-P1M'));`

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 199**
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');

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 200**
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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 201**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**QUESTION 202**
What function is best suited for extracting data from a formatted string into an array?

A. fgetcsv
B. sscanf
C. sprintf
D. strtok

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 203**
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

**Correct Answer:** BD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 204**
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. 12,12

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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 205**
What is "instanceof" an example of?

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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 206**
Given the default PHP configuration, how can all of the parameters provided via GET be accessed in a
form of a string?

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

**Correct Answer:** C
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 207**
You work for a shared hosting provider, and your supervisor asks you to disable user scripts to
dynamically load PHP extensions using the dl() function. How can you do this? (Choose 2)

A. Set enable_dl to Off in the server's php.ini configuration file.
B. Add dl to the current value of disable_functions in the server's php.ini configuration file.
C. Add dl to the current value of disable_classes in the server's php.ini configuration file.
D. Write a custom function called dl() , save it under the name prepend.inc and then set the
auto_prepend_file directive to prepend.inc in php.ini.

**Correct Answer:** AB
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 208**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 209**
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

**Correct Answer:** CE
**Section: A**
**Explanation**

**Explanation/Reference:**
http://php.net/manual/de/session.configuration.php

**QUESTION 210**
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()

**Correct Answer:** BD
**Section: A**
**Explanation**

**QUESTION 211**
What is the output of the following code?

```
$first = "second";
$second = "first";
echo $$$first;
```

A. "first"
B. "second"
C. an empty string
D. an error

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 212**
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 --rc <classname>

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 213**
Which of the following is NOT a valid function declaration?

```
A. function x ($x1 = array())
B. function x (A $x1)
C. function x (A $x1 = null)
D. function x ($x1 = $x2)
```

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 214**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 215**
Consider the following table data and PHP code. What is the outcome?
Table data (table name "users" with primary key "id"):

```
   id        name              email
-------  -----------  --------------------
    1       anna        alpha@example.com
    2       betty       beta@example.org
    3       clara       gamma@example.net
    5       sue         sigma@example.info
```

PHP code (assume the PDO connection is correctly established):

```
$dsn = 'mysql:host=localhost;dbname=exam';
$user = 'username';
$pass = '********';
$pdo = new PDO($dsn, $user, $pass);

try {
  $cmd = "INSERT INTO users (id, name, email) VALUES (:id, :name,
:email)";
  $stmt = $pdo->prepare($cmd);
  $stmt->bindValue('id', 1);
  $stmt->bindValue('name', 'anna');
```

```
    $stmt->bindValue('email', 'alpha@example.com');
    $stmt->execute();
    echo "Success!";
} catch (PDOException $e) {
    echo "Failure!";
    throw $e;
}
```

A.  The INSERT will succeed and the user will see the "Success!" message.
B.  The INSERT will fail because of a primary key violation, and the user will see the "Success!" message.
C.  The INSERT will fail because of a primary key violation, and the user will see a PDO warning message.
D.  The INSERT will fail because of a primary key violation, and the user will see the "Failure!" message.

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 216**
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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 217**
Please provide the name of the super-global variable where all the information about cookies is available.


**Correct Answer:** $_COOKIE -or- $_COOKIE[\] -or- _COOKIE -or- _COOKIE[\]
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 218**
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. 3
C. 4
D. 7
E. 9

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 219**
Which of the following will NOT instantiate a DateTime object with the current timestamp?

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

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 220**
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

**Correct Answer:** E
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 221**
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

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 222**
Which PHP function is used to validate whether the contents of `$_FILES['name']['tmp_name']` have really been uploaded via HTTP?

**Correct Answer:** is_uploaded_file() -or- is_uploaded_file
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 223**
What is the output of the following code?

```
function increment ($val) {
   $val = $val + 1;
}

$val = 1;
increment($val);
echo $val;
```

**Correct Answer:** 1
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 224**
What is the result of the following code?

```
class T {
   const A = 42 + 1;
}

echo T::A;
```

A. 42
B. 43
C. Parse error

**Correct Answer:** B
**Section: A**
**Explanation**

**QUESTION 225**
Consider the following table data and PHP code. What is the outcome?
Table data (table name "users" with primary key "id"):

```
   id          name              email
-------  -----------  --------------------
    1        anna         alpha@example.com
    2        betty        beta@example.org
    3        clara        gamma@example.net
    5        sue          sigma@example.info
```

PHP code (assume the PDO connection is correctly established):

```
$dsn = 'mysql:host=localhost;dbname=exam';
$user = 'username';
$pass = '********';
$pdo = new PDO($dsn, $user, $pass);

$cmd = "SELECT * FROM users WHERE id = :id";
$stmt = $pdo->prepare($cmd);
$id = 3;
$stmt->bindParam('id', $id);
$stmt->execute();
$stmt->bindColumn(3, $result);
$row = $stmt->fetch(PDO::FETCH_BOUND);
```

A. The database will return no rows.
B. The value of $row will be an array.
C. The value of $result will be empty.
D. The value of $result will be 'gamma@example.net'.

**Correct Answer:** D
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 226**
What is the method used to execute XPath queries in the SimpleXML extension?

A. xpathQuery()
B. xpath()
C. simpleXMLXpath()
D. query()
E. evaluate()

**Correct Answer:** B
**Section: A**
**Explanation**

**Explanation/Reference:**

**QUESTION 227**
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";
```

**Correct Answer:** BCE
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 228**
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

**Correct Answer:** A
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 229**
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

**Correct Answer:** BD
**Section: A**
**Explanation**

**Explanation/Reference:**


**QUESTION 230**
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");`

**Correct Answer:** AC
**Section: A**
**Explanation**

**Explanation/Reference:**