

Write your answers on an HTML table with 10 answers on one table row. For example, if your answers are AAAAAA BBBB BBBB CCCCC DDDDD AAAAA CCCCC BBBB DDDDD, then the table would look like the following

1-10	A	A	A	A	A	B	B	B	B	B
11-20	C	C	C	C	C	D	D	D	D	D
21-30	A	A	A	A	A	C	C	C	C	C
31-40	B	B	B	B	B	D	D	D	D	D

The following are for HTML, CSS, and Javascript

1. Change an image's _____ attribute to change which picture it displays.
 - a) location
 - b) URL
 - c) src
 - d) source
2. Function getElementById returns a(n) _____.
 - a) boolean
 - b) string
 - c) id attribute
 - d) object
3. Which of the following is not a DOM collection?
 - a) roots
 - b) anchors
 - c) links
 - d) forms
- 4 What is the value of s3 after the following code is executed?


```
var s1 = "one";
var s2 = "two";
var s3 = "three";
s1.concat( s2 );
s3 = s1;
```

 - a) one
 - b) onetwo
 - c) three
 - d) onetwothree
- 5 Which of the following statements would correctly print out the sentence "Hello World" in blue?
 - a) document.write("<p style = \"color: blue\">");

document.write("Hello World >");
 - b) document.write("<p> style = \"color: blue\" Hello World </p>");
 - c) document.write("<p style = \"color: blue\" Hello World + "</p>");
 - d) document.write("<p style = \"color: blue\">");

document.write("Hello World </p>");
- 6 Which of the following is a JavaScript repetition statement?
 - a) while...repeat
 - b) do...while
 - c) do...repeat
 - d) for...do

7 What does the following statement do?

```
Math.floor( Math.random() * 12 );
```

- a) This creates a random number from 0 up to and including 12.
- b) This creates a random number from 0 up to but not including 12.
- c) This creates a random number from 1 up to and including 12.
- d) This creates a random number from 1 up to but not including 12.

8 What does the variable string contain after the following code is executed?

```
var string = "Good luck on the test";
```

```
string = string.split( " " );
```

- a) an array containing the strings "Good", "luck", "on", "the" and "test"
- b) the string "Good.luck.on.the.test"
- c) the string "Good,luck,on,the,test"
- d) Nothing, the string conversion will generate an error.

9 _____ are stored by the browser on the user's computer to maintain client-specific information during and between browser sessions.

- a) Files
- b) Documents
- c) Cookies
- d) Substrings

10 What does the following script do? Here pid is an id of a paragraph element on the web page.

```
<!--
var value = 0;
function startTimer()
{
    window.setInterval( "updateTime()", 1000 );
}

function updateTime()
{
    value++;
    document.getElementById("pid").innerHTML = value;
}
//-->
```

- a) It counts the number of seconds elapsed while loading the page.
- b) It counts the number of milliseconds elapsed while loading the page.
- c) It counts the number of seconds elapsed viewing the page.
- d) It counts the number of milliseconds elapsed while viewing the page.

11. Event _____ fires whenever a mouse cursor moves into an element.

- a) mousedrag
- b) mouseover
- c) mouseout
- d) all of these

12. The ____ function convert a string into integer in Javascript.

- a) parseInt
- b) converInt
- c) transferInt
- d) int

13. One major use for the meta element is related to which of the following?
- a) search engines
 - b) frames
 - c) audio files
 - d) forms
14. Select the code below that uses CSS to configure a background color of #eaeaea for a web page.
- a) `body {background-color:#eaeaea; }`
 - b) `document {background-page:#eaeaea; }`
 - c) `body {bgcolor:#eaeaea; }`
 - d) None of the above
15. Use the _____ tag to create a generic area or section on a web page that is physically separated from others.
- a) `<div>...</div>`
 - b) `... `
 - c) `<h1>... </h1>`
 - d) `<small>... </small>`
16. According to the CSS rules of precedence, _____ styles override _____ styles.
- a) external, embedded
 - b) embedded, inline
 - c) inline, external
 - d) external, inline
17. Which of the following selections is the proper way to apply this CSS rule:
- ```
.blue { color: blue }
```
- a) `<p color = "blue">`
  - b) `<p class = "blue">`
  - c) `<p color = .blue>`
  - d) `<p class = .blue>`
18. Which of the following settings for a background image can be modified to create a "watermark" effect where scrolling will not move the image from its set position.
- a) background-image
  - b) background-position
  - c) background-repeat
  - d) background-attachment
19. We define styles for all media types with the declaration \_\_\_\_\_.
- a) `#media screen`
  - b) `@media screen`
  - c) `#media all`
  - d) `@media all`
20. Use the \_\_\_\_\_ property to eliminate the bullets from an unordered list.
- a) bullet-image
  - b) list-style-none
  - c) list-style-type
  - d) list-style-image

The following are for PHP and MySQL

21. To round and format the value of a variable named \$number to 3 decimal places and store it in a variable named \$number\_formatted, you code

- a. `$number_formatted = number_format($number, 3, round);`
- b. `$number_formatted = number_format($number, 3);`
- c. `$number_formatted = format_number($number, 3, round);`
- d. `$number_formatted = format_number($number, 3);`

22. After the if statement that follows is executed, what will the value of \$discountAmount be?

```
$discount_amount;
$order_total = 200;
if ($order_total > 200) {
 $discount_amount = $order_total * .3;
} else if ($order_total > 100) {
 $discount_amount = $order_total * .2;
} else {
 $discount_amount = $order_total * .1;
}
```

- a. 0
- b. 20
- c. 40
- d. 60

23. What will \$futureValue contain after the for loop that follows has been executed one time?

```
$years = 10;
$annual_rate = 10;
$future_value = 1000;
$annual_rate = $annual_rate / 100;
for ($i = 1; $i <= $years; $i++) {
 $future_value = $future_value * (1 + $annual_rate);
}
```

- a. 1000
- b. 1100
- c. 11000
- d. 1010

24. In the code that follows, if \$error\_message isn't empty

```
if ($error_message != '') {
 include('index.php');
 exit();
}
```

- a. control is passed to a page named index.php that's in the current directory
- b. control is passed to a page named index.php that's in the parent directory
- c. control is passed to a page named index.php that's in the child directory
- d. nothing happens because the condition is false

25. What does a relational database use to relate the tables in a database to other tables?

- a. indexes
- b. foreign keys
- c. non-primary keys
- d. primary keys

26. The column definition for a MySQL table can be used to determine all but one of the following. Which one is it?

- a. what type of data the column can contain
- b. whether the column can contain a null value
- c. whether the column has a default value
- d. what range of values the column can contain

Use this Code to answer the following three (2) questions

```
SELECT vendorName, invoiceNumber, invoiceDate, invoiceTotal
FROM vendors Inner Join invoices
 On vendors.vendorID = invoices.vendorID
WHERE invoiceTotal >= 500
ORDER BY vendorName DESC
```

27. (Refer to code above.) If vendorName contains string data and invoiceTotal contains decimal values, how will the result set be ordered?

- a. alphabetically starting with A
- b. alphabetically starting with Z
- c. numerically starting with 0
- d. numerically starting with 500

28. (Refer to code above.) How many columns will the result set have?

- a. 4
- b. 5
- c. 6
- d. 7

29. When you create a PDO object, you have to pass all but one of these arguments to it: Which one is it?

- a. Data source name
- b. Server name
- c. User name
- d. Password

30. Which of the following is the correct way to code a PHP statement that returns the result set for a SELECT statement that's stored in \$statement if the PDO object is \$db?

- a. `$results = $db->query($statement);`
- b. `$results = $db->exec($statement);`
- c. `$results = query->$db($statement);`
- d. `$results = exec->$db($statement);`

31. Which of the following is the correct way to code a PHP statement that puts the first row of PDOStatement object named \$products in an array named \$product?

- a. `$product = $db->query($products);`
- b. `$product = $db->fetch($products);`
- c. `$product = $products->query();`
- d. `$product = $products->fetch();`

Use this Code to answer the following three questions  
The starting code for the index.php file which is the first page of an application

```
<?php
 require 'database.php';

 $category_id = $_GET['category_id'];
 if (!isset($category_id)) {
 $category_id = 1;
 }

 // Routine 1
 $query = "SELECT * FROM categories
 WHERE categoryID = $category_id";
 $category = $db->query($query);
 $category = $category->fetch();
 $category_name = $category['categoryName'];

 // Routine 2
 $query = "SELECT * FROM products
 WHERE categoryID = $category_id
 ORDER BY productID";
 $products = $db->query($query);
?>
```

32. (Refer to code above) The first statement in this example gets and runs a file named database.php. What must this code do for the rest of the statements in this example to work?

- a. Create a PDOStatement object named \$db that connects to the right database
- b. Create a PDOStatement object named \$db-> that connects to the right database
- c. Create a PDO object named \$db that connects to the right database
- d. Create a PDO object named \$db-> that connects to the right database

33. (Refer to code above) What does routine 1 store in the variable named \$category\_name?

- a. The category name for the first row in the categories table of the database
- b. The category name for the row in categories table that corresponds to the value in \$category\_id
- c. The category name for the row in categories table that has a category ID of 1
- d. An array of the category names in the categories table

34. (Refer to code above) What does routine 2 store in the variable named \$products?

- a. A PDOStatement object for all rows in the products table
- b. A PDOStatement object for the columns in the first row in the products table

- c. A PDOStatement object for the rows in the products table that have a category ID equal to the value in \$category\_id
  - d. A PDOStatement object for the rows in the products table that have a category ID equal to 1
35. To delete a cookie, you
- a. delete the \$\_COOKIE variable
  - b. use the delete\_cookie function
  - c. use the remove\_cookie function
  - d. set the cookie's value to an empty string and its expiration date to a time in the past
36. When you use session tracking, each HTTP request includes
- a. a URL that stores the session ID
  - b. a cookie that stores the session ID
  - c. a cookie that stores the session data
  - d. a cookie that stores the session ID and the session data
37. The \$\_SERVER array contains data that can be used to
- a. determine whether the data has been encrypted
  - b. determine the SSL strength
  - c. redirect a page to a secure connection
  - d. forward a page to a secure connection
38. When you use form-based authentication,
- a. the username and password are automatically encrypted and decrypted
  - b. the programmer writes the code for the authentication process
  - c. the browser automatically displays a dialog box for the username and password
  - d. the username and password have to be sent for every protected page
39. When you use form-based authentication, you need to include two files at the top of each protected page. The first gets a secure connection, and the second
- a. asks for the username and password
  - b. tests whether the \$\_SESSION array indicates that the user has been validated
  - c. compares the password in the \$\_SESSION array with the password in the database
  - d. decrypts the username and password that's in the database
40. You usually don't need to decrypt passwords, because
- a. passwords aren't normally encrypted
  - b. the sha1 function doesn't provide for decryption
  - c. form-based authentication doesn't require encryption
  - d. you can compare a user's password with a database password in encrypted form