

- 1) _____ **What is a session?**
 - a. Specific address of the client
 - b. The communication protocol between server and client
 - c. **An information interchange period between client and server**
 - d. A communication port

- 2) _____ **How can you define keywords for your web site?**
 - a. In a table
 - b. Using the <keyword> tag
 - c. By writing keywords directly into <head> tag
 - d. **Using the <meta> tag**

- 3) _____ **What attribute of the <A> tag is used to indicate the address to be surfed?**
 - a. No attribute is necessary, just type in the address
 - b. **HREF**
 - c. HLINK
 - d. REF

- 4) _____ **Which one is NOT a method of defining a style?**
 - a. Within the head tag of the HTML document
 - b. As an attribute of every tag
 - c. In a separate CSS Document, linked or imported
 - d. **In an online CSS Document referenced using an anchor tag**

- 5) _____ **What does a value of -20px mean?**
 - a. The value of property will be decreased by 20 inches from its original value.
 - b. **The value of property will be decreased by 20 pixels from its original value.**
 - c. The value of property will be set to 20 pixels.
 - d. It's impossible to have negative values for properties.

- 6) _____ **To set a color-based property to green, which value won't work?**
 - a. **(0,g,0)**
 - b. green
 - c. rgb(0, 200, 0)
 - d. rgb(0%, 80%, 0%)

- 7) _____ **In order to use Perl as a CGI language, which option is NOT necessary?**
- a. **Installing the Perl Plugin for Eclipse**
 - b. Adding the first line to indicate where the Perl interpreter is installed
 - c. Having CGI perl module installed for your web server
 - d. Allowing perl scripts to run under cgi-bin directory on web server
- 8) _____ **Clicking on an active image within an HTML form ...**
- a. submits the form data
 - b. submits the coordinates of the point where mouse was clicked
 - c. **submits both the data and the coordinates**
 - d. Enlarges the image to the actual size or does the reverse of the image is in actual size
- 9) _____ **Which input type is used to define a submit button in a form?**
- a. button
 - b. action
 - c. **submit**
 - d. form
- 10) _____ **Which is NOT an option to send data to a server script?**
- a. Using a form submit button
 - b. Using an active image within a form
 - c. Using a hyperlink linked to the script
 - d. **Using the script tag on the HTML page**
- 11) _____ **Which JavaScript method returns ONE element only, if any?**
- a. **getElementById()**
 - b. getElementsByClass()
 - c. getElementByName()
 - d. getElementsByTagName()
- 12) _____ **Which global object in JavaScript provides access to elements of the page?**
- a. window
 - b. **document**
 - c. node
 - d. style

- 13) _____ **What does `document.getElementById('anElement').innerHTML="This is an Element!"` do**
- a. Creates an element by an ID *anElement* with the textual contents *This is an Element!*
 - b. Finds an element with ID *anElement* and attribute *innerHTML* equal to *This is an Element!*
 - c. **Finds an element with the ID *anElement* and sets its textual contents to *This is an Element!***
 - d. Creates an element by ID *anElement* with attribute *innerHTML* equal to *This is an Element!*
- 14) _____ **How to set the background color of an element by the id *theID* to blue?**
- a. **`document.getElementById('theID').style.backgroundColor='blue'`**
 - b. `style.getElementById('theID').backgroundColor='blue'`
 - c. `document.getElementById('theID').backgroundColor='blue'`
 - d. `window.getElementById('theID').style.backgroundColor='blue'`
- 15) _____ **JavaScript code may NOT appear ...**
- a. Within the script tag of the head tag
 - b. **As the value of the script attribute of HTML tags**
 - c. Within the script tag of each HTML tag that may contain plain text
 - d. As the value of event attributes of HTML tags
- 16) _____ **The *length* attribute of a two-dimensional array ...**
- a. Contains the number of elements in the array
 - b. Contains the number of elements in the array plus one
 - c. **Contains the number of rows in the array**
 - d. Contains the number of elements in the array minus one
- 17) _____ **The JavaScript code placed outside functions ...**
- a. Will not run
 - b. **Will run once when the document loads**
 - c. Will generate an error
 - d. Will run whenever a call to JavaScript occurs
- 18) _____ **Which tag indicates a piece of PHP code?**
- a. `<php ... >`
 - b. **`<?php ... ?>`**
 - c. `<?php ... >`
 - d. `<php ... /php>`

- 19) _____ **What happens when browsing a PHP page?**
- a. The source code is shown
 - b. Only the HTML contents is shown
 - c. Only the PHP code runs and nothing is displayed
 - d. **The HTML content as well as the content printed by PHP is displayed**
- 20) _____ **I'm writing a PHP code hat needs another PHP file named *utility.php*. My code should still run without *utility.php* but will be less efficient. I want to make sure *utility.php* is only imported once. Which should I use?**
- a. **`include_once 'utility.php';`**
 - b. `require_once 'utility.php';`
 - c. `include 'utility.php';`
 - d. `require 'utility.php';`
- 21) _____ **Which is true about case sensitivity in PHP?**
- a. PHP is case sensitive
 - b. PHP is not case sensitive
 - c. **Function names are not case sensitive but variable names are**
 - d. Function names are case sensitive but variable names are not
- 22) _____ **Which is NOT true about variables in PHP?**
- a. **Variables must be explicitly typed**
 - b. Variable names must always be preceded by a \$
 - c. Variable names can only contain alphanumeric and underscore
 - d. Variable names are case sensitive
- 23) _____ **What does *die* function do in PHP?**
- a. Prints an error message to the standard error console
 - b. Logs an error message and continues the program
 - c. Terminates the PHP code
 - d. **Logs an error and terminates the code**
- 24) _____ **What is the difference of double-quoted and single-quoted strings in PHP?**
- a. There's no difference
 - b. Single-quoted strings can only be used as the index of associative arrays
 - c. **When a variable is included in a string, single-quotation string will contain variable name but double quotation string will contain its value**
 - d. When a variable is included in a string, single-quotation string will contain variable value but double quotation string will contain its name

- 25) _____ **Which is NOT a way of producing HTML using PHP?**
- a. Echo/printing HTML content using inline php code within HTML tags
 - b. Echo/printing HTML content using individual echo/print statements in PHP source file
 - c. **Linking a PHP source file to the script tag of the HTML**
 - d. Echoing multiple HTML lines using *here document syntax*
- 26) _____ **What is true about *echo* in PHP?**
- a. Is the only way of writing in response to an HTTP request
 - b. **Is a structure rather than a function**
 - c. Is the only function to write multiple-lines of output
 - d. Does not exist in PHP
- 27) _____ **Which will NOT cause my PHP code run by default when my web site is loaded?**
- a. **Linking my php file using the *link* tag in *index.html***
 - b. Naming my PHP file *index.php*
 - c. Redirecting my *index.html* to my PHP file using the meta tag in *index.html*
 - d. There is no way of running PHP as the default code of a web site
- 28) _____ **Which option defines XHTML better?**
- a. An xml-based language
 - b. An html-based language
 - c. **An xml-based language to define HTML pages**
 - d. An HTML 5.0 standard
- 29) _____ **What is true about cookie object in JavaScript?**
- a. Will be overridden every time a new cookie is assigned to it
 - b. **May be searched using string-like functions**
 - c. Is an array of string-like variables
 - d. Cookies may be only managed on server-side
- 30) _____ **Which PHP variable contains cookies?**
- a. `$_GET`
 - b. `$_POST`
 - c. `$_SESSION`
 - d. **`$_REQUEST`**

- 31) _____ **To upload and submit a file, what do you need on client side?**
- a. **A form with `enctype="multipart/form-data"` enclosing an input of type "file"**
 - b. Any form with a button named *upload*
 - c. Any button with an *onclick* event set to a JavaScript function to upload the file
 - d. A form with action set to server script that uploads a file
- 32) _____ **How to redirect to a new URL *newURL* in JavaScript?**
- a. `window=newURL`
 - b. `window.location=newURL`
 - c. **`window.location.href=newURL`**
 - d. cannot do in JavaScript
- 33) _____ **How is a callback function defined in JavaScript?**
- a. **As a parameter of another function**
 - b. As the *oncallback* event of a form
 - c. As a global function in JavaScript
 - d. In a separate file with the extension *ajax*
- 34) _____ **Which function gives the number of elements in a PHP array?**
- a. `size`
 - b. `length`
 - c. **`count`**
 - d. `len`
- 35) _____ **In what sense JavaScript and PHP are the same?**
- a. Both may be used on client or server side
 - b. **In both, strings may be defined using either single or double quotation**
 - c. In both, variable names must be preceded by `$`
 - d. Both can read/write files
- 36) _____ **Which JavaScript function can be used to automatically run a specific function periodically?**
- a. `setDelay`
 - b. **`setInterval`**
 - c. `for loop`
 - d. `timer`

- 37) _____ **Which JavaScript object can be used to read remote contents using Ajax?**
- a. XMLHttpRequest
 - b. AjaxObject
 - c. window
 - d. Callback
- 38) _____ **Which event can be used to manage clicks on HTML elements?**
- a. click
 - b. onclick
 - c. select
 - d. onselect
- 39) _____ **Several elements on my page use the same style and have the same behavior when the User clicks on them. How should I define their style?**
- a. Using a DIV
 - b. Using a single style ID
 - c. Using a Table
 - d. Using a single style class
- 40) _____ **The contents of which tag is NOT viewable by the User in the HTML page?**
- a. title
 - b. p
 - c. link
 - d. div
- 41) _____ **Which option can replace line 12 of *fetchAllReservations.php*?**
- a. if (\$_GET)
 - b. if (\$_GET>0)
 - c. if (\$_GET[0]>0)
 - d. if (\$_GET!=null)
- 42) _____ **What if *login.php* is not found in line 2 of *fetchAllReservations.php*?**
- a. User will be prompted to enter login information
 - b. A warning will be generated and the rest of the code will run
 - c. The code will not run
 - d. PHP asks for alternative paths to search for *login.php*

- 43) _____ **What should be used in line 5 of *fetchAllReservations.php*?**
- a. nothing
 - b. `if ($con)`
 - c. `if (mysql_error())`
 - d. `if (!$con)`
- 44) _____ **What does line 15 of *fetchAllReservations.php* do?**
- a. Assigns key attribute of form inputs to `$key` and their value to `$value`
 - b. `Assigns name attribute of form inputs to $key and their value to $value`
 - c. Assigns value of form inputs to `$key` and their key to `$value`
 - d. Assigns value of form inputs to `$key` and their name to `$value`
- 45) _____ **How does *fetchAllReservations.php* know to which database the queries in lines 13, 21 and 25 should be applied?**
- a. Line 2 imports those information
 - b. Finds out automatically by looking through database
 - c. It doesn't and will fail
 - d. `By executing mysql_select_db in line 10`
- 46) _____ **What does line 21 of *fetchAllReservations.php* do?**
- a. `Inserts new entries into reservation table with spot column set to $value`
 - b. Inserts new entries into *reservation* table with `$value` column set to `spot`
 - c. Inserts new entries into *reservation* table with all columns set to `$value`
 - d. Inserts new entries into *reservation* table with all column set to `spot`
- 47) _____ **What would *allSpots* string look like at line 32 of *fetchAllReservations.php* if *reservation* table contains three spots 1, 3, 4?**
- a. 1 3 4
 - b. "1 3 4"
 - c. 134
 - d. `'1 3 4'`
- 48) _____ **Is there an error in line 53 of *fetchAllReservations.php*?**
- a. no
 - b. Yes, `_END` is not recognized in PHP
 - c. `Yes, the closing label of echo may not be preceded by any space`
 - d. Yes, the closing label of *echo* may not begin with an underscore

- 49) _____ **What is the value of `$fh` in line 4 of `chat.php`?**
- a. **either a handle to file `chatfile.txt` or `false`**
 - b. either true or false
 - c. either a handle to file `chatfile.txt` or nothing
 - d. it's not possible to assign `fopen` to a variable, the line has errors
- 50) _____ **Under what condition lines 8-9 of `chat.php` will run?**
- a. If `chatfile.txt` exists
 - b. If `chatfile.txt` is not already open
 - c. **If `chatfile.txt` is not locked by another user**
 - d. **If `chatfile.txt` is not exclusively locked for writing by another user**
- 51) _____ **What is the difference of `print` and `printf` in PHP?**
- a. nothing
 - b. **`printf` is used to print formatted text but `print` is used for regular printing**
 - c. `print` is used to print formatted text but `printf` is used for regular printing
 - d. `printf` uses CSS to print but `print` doesn't use CSS
- 52) _____ **What is XMLHttpRequest object in JavaScript used for?**
- a. **To exchange information with server**
 - b. To send information from a JavaScript written for XHTML
 - c. To save session information on client side
 - d. To transform HTML to XHTML
- 53) _____ **What is the difference of `time()` and `date()` functions in PHP?**
- a. `time()` returns current time of day while `date()` returns current date
 - b. `time()` returns current time of day while `date()` returns both current data and time
 - c. **`time()` returns the milliseconds past 1/1/1970 and `date()` formats milliseconds as a date**
 - d. `date()` returns the milliseconds past 1/1/1970 and `time()` formats milliseconds as a date
- 54) _____ **What's contained in the `$_FILES` array in PHP?**
- a. **All files uploaded through a form**
 - b. All files found on server
 - c. All files found in the same directory as the PHP file
 - d. All files that have been added to it

- 55) _____ **How would you save passwords in database?**
- a. Save it as is
 - b. **Encrypt it using a hash function like *md5* and save the encrypted version**
 - c. You should never save a password
 - d. Save it in a hidden file
- 56) _____ **Which one defines an array of 1, 2 and 3 in PHP?**
- a. `$arr=new array(1,2,3);`
 - b. `$arr=new array{1,2,3};`
 - c. **`$arr=array(1,2,3);`**
 - d. `$arr=new [1,2,3];`
- 57) _____ **Having `$array = array("key1" => "val1", "key2" => "val2");` in PHP, which returns *val1*?**
- a. `$array['val1']`
 - b. `$array['val2']`
 - c. `$array['key2']`
 - d. **`$array['key1']`**
- 58) _____ **With the same array as Q. 57, which echo does NOT include all elements of *\$array*?**
- a. `var_dump($array);`
 - b. `foreach ($array as $k => $v) echo $k." : ".$v."
";`
 - c. **`for ($i=0;$i<count($array);$i++) echo $array[$i]."
";`**
 - d. `$keys=array_keys($array); for ($i=0;$i<count($keys);$i++) echo $keys[$i]." : ".$array[$keys[$i]]."
";`
- 59) _____ **Which function gives the length of string in PHP?**
- a. `length()`
 - b. **`strlen()`**
 - c. `size()`
 - d. `count()`
- 60) _____ **How can you send email from your web application?**
- a. Using HTML 5.0 email input
 - b. By specifying an email address as the href of an anchor tag
 - c. By specifying `enctype="text/plain"` on a form and adding an *email* submit button
 - d. **By calling the email utility of a server script such as *mail* in php**

```
1  <?php
2  require_once 'login.php';
3
4  $con = mysql_connect($db_hostname,$db_username,$db_password);
5
6  {
7      die('Could not connect: ' . mysql_error());
8  }
9
10 mysql_select_db($db_database, $con);
11
12 if (count($_GET)>0)
13     mysql_query("DELETE FROM reservation");
14
15 foreach ($_GET as $key => $value)
16 {
17     if ($value!="params") {
18         $anyParams=true;
19         $key = htmlspecialchars( $key );
20         $value = htmlspecialchars( $value );
21         mysql_query("INSERT INTO reservation (spot) VALUES ($value)");
22     }
23 }
24
25 $result = mysql_query("SELECT * FROM reservation");
26
27 $allSpots="";
28 while($row = mysql_fetch_array($result)) {
29     $allSpots=$allSpots." ".$row['spot']." ";
30 }
31 $allSpots=$allSpots." ";
32
33 mysql_close($con);
34
35 echo <<<_END
36 <html>
37 <head>
38 <title>Online Parking Reservation JavaScript</title>
39 <link type="text/css" rel="stylesheet" href="styles/parking.css">
40 <script type="text/javascript" src="parking.js">
41 </script>
42 </head>
43 <body onload="initialize($allSpots)">
44 <div id=centreDiv>
45 </div>
46 <div id=summary>
47 <button onClick="summary()">
48 Summary
49 </button>
50 </div>
51 </body>
52 </html>
53     _END
54 ?>
```

fetchAllReservations.php

```
1  <?php
2
3  if (isset($_POST['name'])) {
4      $fh=fopen("chatfile.txt", 'a') or die("Failed to create/open file!");
5      $newMessage=$_POST['name'].": ".$_POST['message']."\n\r";
6
7      if (flock($fh, LOCK_EX)) {
8          fwrite($fh, $newMessage) or die("Failed to write to file!");
9          flock($fh, LOCK_UN);
10     }
11     fclose($fh);
12
13
14     $chatContent=$_POST['chat'].$newMessage;
15     $userName=$_POST['name'];
16 } else {
17     $chatContent="";
18     $userName="";
19 }
```