	FUTE OF NOLOGY				2/2
TECH	Internal Assesment Test - I				CMR
Sub:	Advanced Web Programming	Code	e: 1	3MCA4	3
Date:	28.03.2017 Duration: 90 mins Max Marks: 50 Sem: IV	Bran	ich: N	ЛСА	
	Answer Any FIVE FULL Questions		•		
			3.6.1	OF	BE
			Mark	CO	RBT
	 What is an array. What are the different types of arrays in PHP. An array is a data structure that stores one or more similar type of values single value. For example if you want to store 100 numbers then instead of defining 100 variables its easy to define an array of 100 length. There are three different kind of arrays and each array value is accessed using an which is called array index. Numeric array – An array with a numeric index. Values are stored and access in linear fashion. Associative array – An array with strings as index. This stores element value association with key values rather than in a strict linear index order. Multidimensional array – An array containing one or more arrays and value accessed using multiple indices 	ID c essed es in	[10]	CO3	L4
	Numeric Array These arrays can store numbers, strings and any object but their index wi represented by numbers. By default array index starts from zero.				
	Example Following is the example showing how to create and access numeric arrays. Here we have used array() function to create array. This function is explained in function reference.				
	<html> <body> <pre> </pre> <pre> </pre> <pre> <pre> <pre></pre></pre></pre></body></html>				
	} /* Second method to create array. */				

```
$numbers[0] = "one";
          $numbers[1] = "two";
          $numbers[2] = "three";
          $numbers[3] = "four";
          $numbers[4] = "five";
          foreach($numbers as $value) {
           echo "Value is $value <br />";
         }
        ?>
      </body>
     </html>
     Associative Arrays
     The associative arrays are very similar to numeric arrays in term of functionality but they
     are different in terms of their index. Associative array will have their index as string so
     that you can establish a strong association between key and values.
     <html>
      <body>
        <?php
          /* First method to associate create array. */
          $salaries = array("mohammad" => 2000, "qadir" => 1000, "zara" => 500);
          echo "Salary of mohammad is ". $salaries['mohammad'] . "<br/>";
          echo "Salary of qadir is ". $salaries['qadir']. "<br/>";
          echo "Salary of zara is ". $salaries['zara']. "<br/>";
          /* Second method to create array. */
          $salaries['mohammad'] = "high";
          $salaries['qadir'] = "medium";
          $salaries['zara'] = "low";
          echo "Salary of mohammad is ". $salaries['mohammad'] . "<br/>";
          echo "Salary of qadir is ". $salaries['qadir']. "<br/>";
          echo "Salary of zara is ". $salaries['zara']. "<br/>";
        ?>
      </body>
     </html>
(b)
     What are the different sorting functions in PHP
             sort() - sort arrays in ascending order
            rsort() - sort arrays in descending order
             asort() - sort associative arrays in ascending order, according to the value
             ksort() - sort associative arrays in ascending order, according to the key
             arsort() - sort associative arrays in descending order, according to the
```

```
value
       krsort() - sort associative arrays in descending order, according to the key
Sort Array in Ascending Order - sort()
<!DOCTYPE html>
<html>
<body>
<?php
$cars = array("Volvo", "BMW", "Toyota");
sort($cars);
$clength = count($cars);
for($x = 0; $x < $clength; $x++) {
  echo $cars[$x];
  echo "<br>";
?>
</body>
</html>
O/P
BMW
Toyota
Volvo
Sort Array in Descending Order - rsort()
The following example sorts the elements of the $cars array in descending
alphabetical order:
<!DOCTYPE html>
<html>
<body>
<?php
$numbers = array(4, 6, 2, 22, 11);
rsort($numbers);
$arrlength = count($numbers);
for($x = 0; $x < $arrlength; $x++) {
     echo $numbers[$x];
     echo "<br>";
?>
</body>
</html>
O/P
22
```

```
11
6
4
Sort Array (Ascending Order), According to Value - asort()
The following example sorts an associative array in ascending order, according
to the value:
<!DOCTYPE html>
<html>
<body>
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
asort($age);
foreach($age as $x => $x_value) {
     echo "Key=" . $x . ", Value=" . $x_value;
     echo "<br>";
?>
</body>
</html>
O/P
Key=Peter, Value=35
Key=Ben, Value=37
Key=Joe, Value=43
Sort Array (Ascending Order), According to Key - ksort()
The following example sorts an associative array in ascending order, according to
the key:
<!DOCTYPE html>
<html>
<body>
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
ksort($age);
foreach($age as $x => $x_value) {
  echo "Key=" . $x . ", Value=" . $x value;
  echo "<br>";
?>
</body>
```

```
</html>
O/P
Key=Ben, Value=37
Key=Joe, Value=43
Key=Peter, Value=35
Sort Array (Descending Order), According to Value - arsort()
The following example sorts an associative array in descending order, according to
the value:
<!DOCTYPE html>
<html>
<body>
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
arsort($age);
foreach($age as $x => $x value) {
  echo "Key=" . $x . ", Value=" . $x_value;
  echo "<br>";
?>
</body>
</html>
O/P
Key=Joe, Value=43
Key=Ben, Value=37
Key=Peter, Value=35
Sort Array (Descending Order), According to Key - krsort()
The following example sorts an associative array in descending order, according to
the key:
<!DOCTYPE html>
<html>
<body>
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
krsort($age);
foreach($age as $x => $x value) {
  echo "Key=" . $x . ", Value=" . $x_value;
  echo "<br>";
```

```
?>
     </body>
     </html>
     O/P
     Kev=Peter, Value=35
     Key=Joe, Value=43
     Key=Ben, Value=37
2(a) What are super global variables. Explain any six super global variables in PHP
                                                                                          [6+4]
                                                                                                  CO4
                                                                                                         L4
                  Several predefined variables in PHP are "superglobals", which means
     that they are always accessible, regardless of scope - and you can access them
     from any function, class or file without having to do anything special.
     The PHP superglobal variables are:
            $GLOBALS
            $ SERVER
           $ REQUEST
           $ POST
           $ GET
            $ FILES
            $ ENV
            $_COOKIE
            $ SESSION
     SERVER is a PHP super global variable which holds information about headers,
     paths, and script locations.
     PHP $_REQUEST is used to collect data after submitting an HTML form. The example
     below shows a form with an input field and a submit button. When a user submits the
     data by clicking on "Submit", the form data is sent to the file specified in the action
     attribute of the <form> tag. In this example, we point to this file itself for processing form
     data. If you wish to use another PHP file to process form data, replace that with the
     filename of your choice. Then, we can use the super global variable $_REQUEST to collect
     the value of the input field
     <html>
     <body>
     <form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
      Name: <input type="text" name="fname">
      <input type="submit">
     </form>
     <?php
     if ($ SERVER["REQUEST METHOD"] == "POST") {
       // collect value of input field
       $name = $_REQUEST['fname'];
```

```
if (empty($name)) {
    echo "Name is empty";
  } else {
    echo $name;
 }
?>
</body>
</html>
PHP $_POST is widely used to collect form data after submitting an HTML form with
method="post". $_POST is also widely used to pass variables.
The example below shows a form with an input field and a submit button. When a user
submits the data by clicking on "Submit", the form data is sent to the file specified in the
action attribute of the <form> tag. In this example, we point to the file itself for
processing form data. If you wish to use another PHP file to process form data, replace
that with the filename of your choice. Then, we can use the super global variable $_POST
to collect the value of the input field:
<html>
<body>
<form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
Name: <input type="text" name="fname">
<input type="submit">
</form>
<?php
if ($ SERVER["REQUEST METHOD"] == "POST") {
 // collect value of input field
  $name = $_POST['fname'];
  if (empty($name)) {
    echo "Name is empty";
  } else {
    echo $name;
 }
?>
</body>
</html>
PHP $ GET can also be used to collect form data after submitting an HTML form
with method="get".
$_GET can also collect data sent in the URL.
```

			1	l
	Assume we have an HTML page that contains a hyperlink with parameters:			
	<html></html>			
	 body>			
	Test \$GET			
	<html></html>			
	<body></body>			
	php<br echo "Study " . \$_GET['subject'] . " at " . \$_GET['web'];			
	?>			
(b)	What are the various ways to include files in PHP.			
	Include and require			
2(-)	TATE A STATE OF THE PARTY OF TH	F.C	004	T 4
3(a)	What are the different types of errors in PHP.	[5+5]	CO4	L4
	Error is a deviation from accuracy or a mistake caused unintentionally. In PHP, 3 types of			
	basic errors are –			
	1. Notices : These are small, non-critical errors that PHP encounters while executing a			
	script – for example, accessing a variable that has not yet been defined. By default, such			
	errors are not displayed to the user at all – although the default behavior can be changed.			
	2. Warnings: Warnings are more severe errors like attempting to include() a file which			
	does not exist. By default, these errors are displayed to the user, but they do not result in			
	script termination.			
	3. Fatal errors : These are critical errors – for example, instantiating an object of a non-			
	existent class, or calling a non-existent function. These errors cause the immediate			
	termination of the script, and PHP's default behavior is to display them to the user when			
	they take place.			
	Different types of errors are :			
	E_ERROR: A fatal error that causes script termination			

E WARNING: Run-time warning that does not cause script termination E_PARSE: Compile time parse error. E NOTICE: Run time notice caused due to error in code E CORE ERROR: Fatal errors that occur during PHP's initial startup (installation) E_CORE_WARNING: Warnings that occur during PHP's initial startup E_COMPILE_ERROR: Fatal compile-time errors indication problem with script. E_USER_ERROR: User-generated error message. E USER WARNING: User-generated warning message. E_USER_NOTICE: User-generated notice message. E STRICT: Run-time notices. E_RECOVERABLE_ERROR: Catchable fatal error indicating a dangerous error E_ALL: Catches all errors and warnings (b) Differentiate between GET and POST method in PHP. Both GET and POST create an array (e.g. array(key => value, key2 => value2, key3 => value3, ...)). This array holds key/value pairs, where keys are the names of the form controls and values are the input data from the user. Both GET and POST are treated as \$_GET and \$_POST. These are superglobals, which means that they are always accessible, regardless of scope - and you can access them from any function, class or file without having to do anything special. \$_GET is an array of variables passed to the current script via the URL parameters. \$_POST is an array of variables passed to the current script via the HTTP POST method. When to use GET? Information sent from a form with the GET method is visible to everyone (all variable names and values are displayed in the URL). GET also has limits on the amount of information to send. The limitation is about 2000 characters. However, because the variables are displayed in the URL, it is possible to bookmark the page. This can be useful in some cases. GET may be used for sending non-sensitive data.

	Note: GET should NEVER be used for sending passwords or other sensitive information!			
	When to use POST?			
	Information sent from a form with the POST method is invisible to others (all			
	names/values are embedded within the body of the HTTP request) and has no			
	limits on the amount of information to send.			
	Moreover POST supports advanced functionality such as support for multi-part			
	binary input while uploading files to server.			
	However, because the variables are not displayed in the URL, it is not possible to			
- 1	bookmark the page.	F4.03	G0.4	_
a)	Explain cookies and sessions in PHP with neat example This is a suitable method for tracking users. Web servers are stateless entities.	[10]	CO4	L
	Cookies:-			
	Cookies provide a way for a server to store information about a user on the user's machine. This enables to maintain the user's visit to the site, so that they can track			
	their movement through the site, or to store information such as their user name.			
	Cookies allow data to be stored in the form of a name/value pair. Both the name			
	and the value are set at choice.			
	It contains the following syntax			
	Name=value;expires=expiration date gmt; path=url(optional)			
	To create a cookie			
	Setcookie(name,value,expires,path);			
	Cookie name/value pair: The first section of the cookie defines the name of the			
	cookie and the value assigned to the cookie. Both the name and value settings can			
	be any value as per the users choice.			
	Cookie Expiration time: The optional expires= section specifies the date on which			
	the associated cookie should expire. The PHP time() can be used to obtain and			
	manipulate dates for this purpose			
	Example:			
	php</td <td></td> <td></td> <td></td>			
	Setcookie('username', 'abcd', time()+4800);			
	Echo "cookie has been set";			
	?>			
	The cookie will expire after 4800 seconds.			
	Cookies are sent in the HTTP headers in pages sent by the browser. Once the			
	cookies has been set they can be accessed on the next page load with the			
	\$_COOKIE array. This is an associative array where the name of the cookie			

provides the index into the array to extract the corresponding value of the name/value pair. Example: <?php Echo "cookie value is ".\$ COOKIE['username']; To delete a cookie Cookies are deleted by calling the setcookie() function with the cookie name , a null for the value and an expiration date in the past. <?php Setcookie("username","",time()-4800); ?> Sessions A session is a way to store information (in variables) to be used across multiple pages. A session creates a file in a temporary directory on the server where registered session variables and their values are stored. The data will be available to all pages on the site during the visit. A session like a cookie provides a way to track data for a user over a series of pages. The main difference between cookie and session is that cookie stores the data on the client side in the web browser whereas the session data is stored on the server. Sessions are generally more secure, because the data is not transmitted back and forth between the client and server repeatedly. Sessions let you store more information than you can in cookie. When session starts, PHP generates a random session id, a reference to that particular session and its stored data. To start a session Session_start(); Session variables are set with the PHP global variables \$_SESSION. <?php Session_start(); \$ SESSION["username"] = "abc"; ?>

To delete the session variables, we unset \$ SESSION array

Unset(\$ SESSION["username"]);

```
To remove session data from the server where it is stored in the temporary file, we
     use
     Session_destroy();
5(a) Handling XML
                                                                                    [10]
                                                                                           CO4
                                                                                                 L4
     Student.xml
     <?xml version="1.0" encoding="utf-8"?>
      <student>
        <stud>
           <usn>1cr12mca01</usn>
          <name>ABC</name>
           <college>CMRIT</college>
       </stud>
     </student>
     Student.php
      <?php
     Mysql connect("localhost","root","");
     Mysql select db("student1");
     $q = simplexml load file("Student.xml");
     Foreach($q as $res)
     susn = sres->usn;
     ne = res - name:
     $college = $res->college;
     $q = mysql query("insert into student values('$usn','$name','$college')");
     $query = Mysql query("select * from student");
     While($result = mysql_fetch_array($query))
     Echo $result["usn"];
     Echo $result["name"];
     Echo $result["college"];
     Explain date function in PHP? How do you get the current day, month and year?
                                                                                    [4+6]
                                                                                           CO<sub>4</sub> L<sub>1</sub>,L
     The date() function formats a local date and time, and returns the
     formatted date string.
     date(format, timestamp);
     <?php
     echo date("1") . "<br>";
     // Prints the day
     // Prints the day, date, month, year, time, AM or PM
     echo date("l jS \of F Y h:i:s A");
```

// o/p is Thursday 3rd of March 2016 04:22:37 AM			
Write a program for file uploading in PHP?			
<u>Upload.php</u>			
<html><head></head></html>			
<title>Upload An Image</title>			
<body></body>			
<pre><form action="up.php" enctype="multipart/form-data" method="post"></form></pre>			
<input name="image" type="file"/>			
\frac{1}{1} \text{IIII}			
php</td <td></td> <td></td> <td></td>			
· ·			
, ,			
<pre></pre>			
Discuss the different file operations in PHP	[5+5]	CO5	L4
a. Opening files			
To open files we use fopen() function.			
Fopen(name of the file, mode)			
Modes are			
a. append mode			
php</td <td></td> <td></td> <td></td>			
Reading contents from a file			
Fread , file_get_contents , fgets etc are similar functions for reading contents			
of a file.			
	Write a program for file uploading in PHP? Upload.php httms://linead *title>Upload An Image //linead *body> *form method="post" action="up.php" enctype="multipart/form-data"> input type="file" name="image" /> input type="hidden" name="MAX_FILE_SIZE" value="1024000000"> input type="submit" id="userSbtBtn" value="Upload Image" /> *form> *form> *form> *fody> */html> *?php \$fname = \$_FILES['image']['name']; \$fsize = \$_FILES['image']['tmp_name']; \$ccho 'chr />'; \$supload="uploads"; move_uploaded_file(\$tmpname,\$upload); \$ccho "\$fname"; ?> *img src= "\$fname" width=200 height=200 /> Discuss the different file operations in PHP a. Opening files To open files we use fopen() function. Fopen(name of the file, mode) Modes are r: read mode w: write mode a: append mode *?php \$fp = fopen("file.txt","r"); Echo fread(\$fp); Fclose(\$fp); ?> Reading contents from a file Fread , file_get_contents , fgets etc are similar functions for reading contents	Write a program for file uploading in PHP? Upload.php html> html> <head> <titile>Upload An Image </titile></head> \Improve form in a file in a provided in a provid	Write a program for file uploading in PHP? Upload.ghp Attile>Upload An Image Attile>Upload An Image Attile>Upload An Image Attile>Upload An Image Attile>Upload An Image Attile>Upload Image Attile>Upload Image Attile>Upload Image Attile>Upload Image Attile>Upload Image Attile A

3. Do – while4. Foreach		
Following loop statements are used in PHP 1. For 2. While		
statement is used		
To execute the same block of statements, a specific number of times a loop		
Loop statements:		
Write some examples for each		
2. If-else-if statement3. Switch statement		
1. If-else statement		
of a controlling expression PHP selection statements are categorised as		
A selection statement selects among a set of statements depending on the value		
A selection statement causes the program control to be transferred to a specific flow based upon whether a certain condition is true or not		
Selection statement:		
Loop statements		
Selection statements		
There are two categories of control statements:		
A control statement determines whether the other statements need to be executed.		
go to an alternate block of statements.		
Explain the various control statements in PHP Control statements control the flow of the program. If a condition is true, the program will execute a block of statements and if the condition is false, flow will		
Fclose (\$fp);		
Closing a file		
Writing to a file File_put_contents(\$fp,"contents to be written");		
executed.		

December 1 (contract december 1)		
Preg_match(pattern, string, array);		
Preg_match_all();		
Preg_replace()		
Preg_replace_all()		

	Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1:	Develop Web apps using various development languages and tools	1	-	3	-	-	-	3	3
CO2:	Build the ability to select the essential technology needed to develop and implement web applications	2	2		-	-	1	2	3
CO3:	Design dynamic web applications using PERL CGI - MySQL		3	3	1	-	1	3	3
CO4:	Design dynamic web applications using PHP MySQL	-	-	3	2	-	-	3	3
CO5:	Ruby Rails application development	1	-	2	-	-	-	3	3
CO6:	Develop Web apps using various development languages and tools	-	-	-	1	2	2	-	-

Cognitive level	KEYWORDS
L1	List, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where, etc.
L2 summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discus	
L3	Apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover.
L4	Analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer.
L5	Assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize.

PO1 - Apply knowledge; PO2 - Problem analysis; PO3 - Design/development of solutions; PO4 - team work; PO5 - Ethics; PO6 - Communication; PO7 - Business Solution; PO8 - Life-long learning;