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SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22619

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.
- 8) As per the policy decision of Maharashtra State Government, teaching in English/Marathi and Bilingual (English + Marathi) medium is introduced at first year of AICTE diploma Programme from academic year 2021-2022. Hence if the students in first year (first and second semesters) write answers in Marathi or bilingual language (English +Marathi), the Examiner shall consider the same and assess the answer based on matching of concepts with model answer.

Q.No	Sub	Answer	Marking
	Q.N.		Scheme
1.		Attempt any <u>FIVE</u> of the following:	10
	a)	Describe advantages of PHP.	2M
	Ans.	Easy to Learn	½ M each,
		Familiarity with Syntax	any four
		• PHP is an open-source web development language, it's	advantages
		completely free of cost.	
		• PHP is one of the best user-friendly programming languages in	
		the industry.	
		• PHP supports all of the leading databases, including MySQL,	
		ODBC, SQLite and more	
		effective and efficient programming language	
		Platform Independent	
		PHP uses its own memory space, so the workload of the server	
		and loading time will reduce automatically, which results into	
		the faster processing speed.	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

b) Ans.	 PHP is one of the most secure ways of developing websites and dynamic web applications. PHP has multiple layers of security to prevent threats and malicious attacks. What is array? How to store data in array? 1. An array in PHP is an ordered map where a map is a type that associates values to keys. 2. Ways to store an array. Using array variable <?php \$array_fruits= array('Apple', 'Orange', 'Watermelon', 'Mango'); ?> OR Using array indices <?php \$array= [];// initializing an array \$array[] = 'Apple'; \$array[] = 'Orange'; \$array[] = 'Watermelon; \$array[] = 'Mango; print_r(\$array); ?> 	2M 1M for definition 1M to store data
c) Ans.	List types of inheritance. 1. Single Level Inheritance 2. Multiple Inheritance 3. Multiple Inheritance (Interfaces) 4. Hierarchical Inheritance	2M 2M for any four correct names of inheritance
d) Ans.	How can we destroy cookies? We can destroy the cookie just by updating the expire-time value of the cookie by setting it to a past time using the setcookie() function. Syntax: setcookie(name, time() - 3600);	2M 1M for explanatio n 1M for syntax/ example
e)	List any four data types in MYSQL	2M



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SUMMER – 2022 EXAMINATION MODEL ANSWER

	Data Type	Size	Description		
	CHAR(size)	Maximum 255 characters	Fixed-length Character strings.	2M for any four	
	VARCHAR (size)	Maximum 255 characters	Variable length string	correct types	
	TEXT(size)	Maximum size of 65,535 characters.	Here size is the number of characters to store.		
	INT(m)/ INTEGER(m)	Signed values range from - 2147483648 to 2147483647. Unsigned values range from 0 to 4294967295. (4 bytes)	Standard integer value.		
	DATE()	(3 bytes) Displayed as 'yyyy-mm-dd'.	Displayed as 'yyyy-mm-dd'		
	DATETIM E()	Values range from '1000- 01-01 00:00:00' to '9999- 12-31 23:59:59'.	(8 bytes) Displayed as 'yyyy-mm- ddhh:mm:ss'.		
f)	Write syntax	of PHP.		2M	
Ans.	A PHP script The PHP delir engine to trea simple HTMI Syntax: php echo 'Hell ?	starts with the tag php and miter in the following example the enclosed code block as F</td <td>le simply tells the PHP</td> <td>2M for correct syntax</td>	le simply tells the PHP	2M for correct syntax	
g)		e session variable in PHP?		2M 1M for	
Ans.		• Session variable can be set with a help of a PHP global variable: \$_SESSION.			
	 Data in the session is stored in the form of keys and values pair. We can store any type of data on the server, which include arrays and objects. 			explanation n IM for correct	
	• For examp	ole, we want to store usernamed whenever it is required thro		syntax / example	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

F-			
		php</th <th></th>	
		session_start();	
		\$_SESSION["username"] = "abc";	
		?>	
2.		Attempt any THREE of the following:	12
	a)	Write down rules for declaring PHP variable	4M
	Ans.	a. A variable starts with the \$ sign, followed by the name of the	1M for
		variable.	each
		b. A variable name must start with a letter or the underscore	correct
		character.	rule, any
		c. A variable name should not contain spaces. If a variable name is	four rules
		more than one word, it should be separated with an underscore	can be
		(\$first_name), or with capitalisation (\$firstName).	considered
		d. Variables used before they are assigned have default values.	
		e. A variable name cannot start with a number.	
		f. A variable name can only contain alpha-numeric characters (A-	
		Z, a-z) and underscores.	
		g. Variable names are case-sensitive (\$name and \$NAME are two	
		different variables)	
		h. Variables can, but do not need, to be declared before	
		assignment. PHP automatically converts the variable to the	
		correct data type, depending on its value.	
		i. Variables in PHP do not have intrinsic types - a variable does	
		not know in advance whether it will be used to store a number	
		or a string of characters	
	b)	Write a program to create associative array in PHP.	4M
	Ans.	php</th <th>4M for any</th>	4M for any
		\$a = array("sub1"=>23,"sub2"=>23,"sub3"=>12,"sub4"=>13);	correct
		var_dump(\$a);	code for
		echo " br>";	associative
		foreach (\$a as \$x)	array
		echo "\$x ";	_
		echo "using for loop br>";	
		\$aLength= count(\$a);	
		echo "Count of elements=\$aLength ";	
		for (\$i=0;\$i<\$aLength;\$i++)	
		echo "\$a[\$i] ";	
		echo "array function extract ";	
		extract(\$a);	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

	echo \$a1." ".\$a2." ".	\$a3." ".\$a4." <br< th=""><th></th></br<>				
	?>					
c) Ans.	 Define Introspection and explain it with suitable example. Introspection in PHP offers the useful ability to examine an object's characteristics, such as its name, parent class (if any) properties, classes, interfaces and methods. PHP offers a large number functions that can be used to accomplish the above task. Following are the functions to extract basic information about classes such as their name, the name of their parent class etc. 					
	Function	Description	example			
	class_exists()	Checks whether a class has been defined.				
	get_class()	Returns the class name of an object.				
	get_parent_class()	Returns the class name of an object's parent class.				
	is_subclass_of()	Checks whether an object has a given parent class.				
	get_declared_classes(Returns a list of all declared classes.				
	get_class_methods()	Returns the names of the class' methods.				
	get_class_vars()	Returns the default properties of a class.				
	interface_exists()	Checks whether the interface is defined.				
	method_exists()	Checks whether an object defines a method.				
	<pre>Example: <?php class Test { function testing_one() { return(true); } function testing_two() { return(true); } function testing_three()</pre></pre>					



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SUMMER – 2022 EXAMINATION MODEL ANSWER

```
return(true);
       //Class "Test" exist or not
       if (class_exists('Test'))
       t = \text{new Test()};
       echo "The class is exist. <br>";
       else
       echo "Class does not exist. <br>";
       //Access name of the class
       $p= new Test();
       echo "Its class name is " ,get_class($p) , "<br>";
       //Aceess name of the methods/functions
       $method = get class methods(new Test());
       echo "<b>List of Methods:</b><br>":
       foreach ($method as $method_name)
       echo "$method_name<br>";
       ?>
       Output:
       The class is exist.
       Its class name is Test
       List of Methods:
       testing_one
       testing_two
       testing_three
       Write difference between get() and post() method of form (Any
                                                                              4M
 d)
       four points)
                 HTTP GET
                                              HTTP POST
                                                                            1M for
Ans.
                                        In POST method large
                                                                             each
        In GET method we cannot send
        large amount of data rather
                                        amount of data can be
                                                                            correct
        limited data is sent because the
                                        sent because the request
                                                                          differentiat
        request parameter is appended
                                        parameter is
                                                        appended
                                                                           ion, any
                                                                          four points
        into the URL.
                                        into the body.
```



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SUMMER – 2022 EXAMINATION MODEL ANSWER

		CET request is seened.	DOCT magazine	40 1
		GET request is comparatively	POST request is	to be
		better than Post so it is used	comparatively less better	considered
		more than the Post request.	than Get so it is used less	
		CET	than the Get request.	
		GET request is comparatively	POST request is	
		less secure because the data is	comparatively more	
		exposed in the URL bar.	secure because the data is	
			not exposed in the URL	
			bar.	
		Request made through GET	Request made through	
		method are stored in Browser	POST method is not	
		history.	stored in Browser history.	
		GET method request can be	POST method request	
		saved as bookmark in browser.	cannot be saved as	
			bookmark in browser.	
		Request made through GET	Request made through	
		method are stored in cache	POST method are not	
		memory of Browser.	stored in cache memory	
			of Browser.	
		Data passed through GET	Data passed through	
		method can be easily stolen by	POST method cannot be	
		attackers.	easily stolen by attackers.	
		In GET method only ASCII	1	
		characters are allowed.	of data is allowed.	
3.		Attempt any <u>THREE</u> of the follo		12
	a)	Define function. How to define	user defined function in PHP?	
		Give example.		1M for
	Ans.	Definition: -A function is a block	k of code written in a program to	definition
		perform some specific task.		
		They take information as paramet		
		or perform operations on these pa		
		function will be executed by a call	2M for	
		Define User Defined Function	any relevant	
		declaration starts with the keywor	example	
		decidention states with the keywor	campie	
		Syntax		
		function functionName() {		
		code to be executed;		



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

		<u> </u>
	Example	
	php</th <th></th>	
	function writeMsg() {	
	echo "Welcome to PHP world!";	
	}	
	writeMsg(); // call the function	
	?>	
	(Any other example can be considered)	
b)	Explain method overloading with example.	4M
Ans.	Function overloading or method overloading is the ability to create	2M for
1115	multiple functions of the same name with different implementations	explanatio
	depending on the type of their arguments.	n
	In PHP overloading means the behavior of a method changes	2M for
	dynamically according to the input parameter.	example
	call() is triggered when invoking inaccessible methods in an	
	object context.	
	callStatic() is triggered when invoking inaccessible methods in a	
	static context.	
	call():	
	If a class executecall(), then if an object of that class is called	
	with a method that doesn't exist thencall() is called instead of that	
	method.	
	example:-	
	php</th <th></th>	
	// PHP program to explain function	
	// overloading in PHP	
	// Creating a class of type shape	
	class shape {	
	//call is magic function which accepts	
	// function name and arguments	
	functioncall(\$name_of_function, \$arguments) {	
	// It will match the function name	
	if(\$name_of_function == 'area') {	
	<pre>switch (count(\$arguments)) {</pre>	
	// If there is only one argument	



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

	// area of circle	
	case 1:	
	return 3.14 * \$arguments[0];	
	// IF two arguments then area is rectangle;	
	case 2:	
	return \$arguments[0]*\$arguments[1];	
	}	
	}	
	}	
	}	
	// Declaring a shape type object	
	\$s = new Shape;	
	// Function call	
	echo(\$s->area(2));	
	echo " ";	
	,, ,,,	
	// calling area method for rectangle	
	echo (\$s->area(4, 2));	
	?>	
	Output:	
	9.426	
	48	
	Howe the energy months disconnected demonstration and energy to the	
	Here the area() method is created dynamically and executed with	
	the help of magic methodcall() and its behavior changes	
	according to the pass of parameters as object.	
6)	(Any other example can be considered) Define session and cookie Explain use of session start	4M
c) Ans.	Define session and cookie. Explain use of session start. Session	4NI 1M for
A115.	Session is a way to store information to be used across multiple	each
	pages, and session stores the variables until the browser is closed.	eacn definition
	To start a session, the session_start() function is used and to destroy	2M for use
	a session, the session_unset() and the session_destroy() functions	of session
	are used.	start
	The session variables of a session can be accessed by using the	swi t
	\$_SESSION super-global variable.	
	\u20051011 Super Sicour furiusic.	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

	I	1
	Cookie Cookie is a small piece of information stored as a file in the user's browser by the web server. A cookie stores some data temporarily (until the expiration date has passed). There is no Unique ID allocated for a Cookie. The cookie data can be accessed using the \$_COOKIE super-global variable. A cookie can be set using the setcookie() function.	
	Use of Session start PHP session_start() function is used to start the session. It starts a new or resumes an existing session. It returns an existing session if the session is created already. If a session is not available, it creates and returns a new session. session_start() creates a session or resumes the current one based on a session identifier passed via a GET or POST request, or passed via a cookie.	
	Example optional:- php session_start(); ? <html> <body> <?php \$_SESSION["uname"]="Customer1"; \$_SESSION["fcolor"]="RED"; echo "The session variable are set with values"; ?></body></html>	
d) Ans.	Explain delete operation of PHP on table data. Delete command is used to delete rows that are no longer required from the database tables. It deletes the whole row from the table.	4M 2M for explanatio
	The DELETE statement is used to delete records from a table: DELETE FROM table_name WHERE some_column = some_value	n 2M for program / Example



(Autonomous)

(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22619

[WHERE condition] is optional. The WHERE clause specifies which record or records that should be deleted. If the WHERE clause is not used, all records will be deleted.

Below is a simple example to delete records into the student.pridata table. To delete a record in any table it is required to locate that record by using a conditional clause. Below example uses name to match a record in student.pridata table.

Example:-

Assume Following Table Database Name-student

Table name - pridata

name	age	gender	email	phone
amit	22	male	samplemail171019@gmail.com	2147483647
Raj	25	male	raj@gmail.com	1234567891
Swapna	36	female	swapna@gmail.com	2147483647

```
<?php
  $server='localhost';
  $username='root';
  $password=";
  $con=mysqli_connect($server,$username,$password);
  if(!$con){
                                                             to"
die("Connection
                         this
                                database
                                            failed
                   to
                                                      due
.mysqli_connect_error($mysqli));
  $sql="DELETE FROM student.pridataWHERE name='amit'";
  if($con->query($sql)==true){
    echo "Record deleted successfully";
else{
     "ERROR:error".$con->error();
  $con->close();
Output:-
Record deleted sucessfully
```



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SUMMER – 2022 EXAMINATION MODEL ANSWER

		Table after Do	eletion				
		name	age gender	email	phone		
		Raj	25 male	raj@gmail.com	1234567891		
		Swapna	a 36 female	swapna@gmail.c	com 2147483647		
		(Any other exa	mple can be	considered)			
				0.11			10
4.	a)	Attempt any <u>T</u> Write PHP s			numhers usin	o array	12 4M
	•	function.	cript to so	it any nive	numbers usin	array	4M for
	Ans.	php</th <th></th> <th></th> <th></th> <th></th> <th>correct and</th>					correct and
		a = array(1, 8)	8, 9, 4, 5);				equivalent
		sort(\$a); foreach(\$a as \$i) [code
		echo \$i.' ';	·/ \				
		}					
		?>					
		OR					
		OK					
		ht</th <th>tml></th> <th></th> <th></th> <th></th> <th></th>	tml>				
		<html></html>					
		 <body> <h1>Enter five</h1></body>	numbara //I	T1、			
		<form action="</th"><th></th><th></th><th></th><th></th><th></th></form>					
		<input type="</th"/> <th></th> <th>-</th> <th>olaceholder =</th> <th>'Number</th> <th></th>		-	olaceholder =	'Number	
		1'>					
		<pre><input type="2'"/> > </pre>	'number' n	ame = 'n2' p	olaceholder =	'Number	
		<pre></pre>	'number' n	ame = 'n3' r	olaceholder =	'Number	
		3'> 3'> 	number n			Trainioei	
		<input type="</th"/> <th>'number' n</th> <th>ame = 'n4' p</th> <th>olaceholder =</th> <th>'Number</th> <th></th>	'number' n	ame = 'n4' p	olaceholder =	'Number	
		4'>		1 51	1 1 11	INT 1	
		<pre><input type="5'"/> > </pre>	number n	ame = ns p	biacenoider =	Number	
		<input :<="" th="" type="si</th><th>ubmit" value=""/> <th>= 'Submit'></th> <th></th> <th></th> <th></th>	= 'Submit'>				



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SUMMER – 2022 EXAMINATION MODEL ANSWER

```
sort.php
       <?php
         if($_SERVER['REQUEST_METHOD'] == 'POST') {
           a = array(\$ POST['n1'], \$ POST['n2'], \$ POST['n3'],
       $_POST['n4'], $_POST['n5']);
           sort($a);
       foreach($a as $i) {
             echo $i.' ';
       (Any other example can be considered)
       Write PHP program for cloning of an object
 b)
                                                                           4M
       (Any other correct program can be considered)
                                                                          4M for
Ans.
       Code:-
                                                                          correct
       <!DOCTYPE html>
                                                                         program
       <html>
       <body>
       <?php
       class car {
       public $color;
       public $price;
       function construct()
        $this->color = 'red';
        this->price = 200000;
        }
       mycar = new car();
       $mycar->color = 'blue';
       $mycar->price = 500000;
       $newcar = clone $mycar;
       print_r($newcar);
       ?>
       </body>
       </html>
```



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

		1
	Explanation The above code creates a car with a constructor which initializes its member variable named color and price. An object of the variable is created, and it is cloned to demonstrate deep cloning.	
c)	Create customer form like customer name, address, mobile no, date of birth using different form of input elements & display	4M
A	user inserted values in new PHP form.	
Ans.	html <html> <body> <form action="dataphp" method="post"> <input name="name" placeholder="Customer Name" type="text"/> <input name="address" placeholder="Address" type="text"/> <input name="number" placeholder="Mobile Number" type="text"/> <input name="number" placeholder="Mobile Number" type="text"/> <input name="dob" type="date"/> <input name="dob" type="date"/> <input type="submit" value="Submit"/> </form> </body> </html>	4M for correct and equivalent code
	<pre>data.php <body><form> Customer Name: '.\$_POST['name'].' Address: '.\$_POST['address'].' Mobile Number: '.\$_POST['number'].' Date of Birth: '.\$_POST['dob']; } ?> (Any other correct program logic can be considered)</form></body></pre>	
d)	Inserting and retrieving the query result operations	4M
Ans.	php</th <th>2M for</th>	2M for
	\$con = mysqli_connect('localhost', 'root', ", 'class');	inserting



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

	#Connecting to Database \$query = "insert into user values(1, 'Amit')"; # Inserting Values \$result = mysqli_query(\$con, \$query); if(\$result) { echo 'Insertion Successful else { echo 'Insertion Unsuccessful 	2M for retrieving the query result operations
e)	How do you validate user inputs in PHP.	4M
Ans.	 Invalid user input can make errors in processing. Therefore, validating inputs is a must. 1. Required field will check whether the field is filled or not in the proper way. Most of cases we will use the * symbol for required field. 2. Validation means check the input submitted by the user. 	2M for explanatio n 2M for program



(Autonomous)

(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22

22619

There are two types of validation available in PHP.

Client-Side Validation – Validation is performed on the client machine web browsers.

Server Side Validation – After submitted by data, The data is sent to a server and performs validation checks in the server machine.

Some of Validation rules for field

Field Validation Rules

Name Should required letters and white-spaces

Email Should be required @ and .
Website Should required a valid URL
Radio Must be selectable at least once
Check Box Must be checkable at least once
Drop Down menu Must be selectable at least once

The preg_match() function searches a string for pattern, returning true if the pattern exists, and false otherwise.

To check whether an email address is well-formed is to use PHP's **filter_var() function.**

empty() function will ensure that text field is not blank it is with some data, function accepts a variable as an argument and returns TRUE when the text field is submitted with empty string, zero, NULL or FALSE value.

Is_numeric() function will ensure that data entered in a text field is a numeric value, the function accepts a variable as an argument and returns TRUE when the text field is submitted with numeric value.

Example:-

Validations for: - name, email, phone no, website url

<!DOCTYPE html>

<body>

<?php

\$nerror = \$merror = \$perror = \$werror = \$cerror = "";

\$name = \$email = \$phone = \$website = \$comment = "";

 $pattern = "^[a-z0-9-]+(\.[a-z0-9-]+)* @[a-z0-9-]+(\.[a-z0-9-]+)*(\.[a-z]{2,3})$^";$



(Autonomous)

(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22

22619

```
if($_SERVER["REQUEST_METHOD"]=="POST") {
if(empty($_POST["name"])) {
$nerror = "Name cannot be empty!";
else {
$name = test_input($_POST["name"]);
if(!preg_match("/^[a-zA-Z-']*$/",$name))
$nerror = "Only characters and white spaces allowed";
if(empty($_POST["email"])) {
$merror = "Email cannot be empty!";
else
$email = test_input($_POST["email"]);
if(!preg match($pattern, $email)) {
$merror = "Email is not valid";
if(empty($_POST["phone"])) {
$perror = "Phone no cannot be empty!";
else {
$phone = test_input($_POST["phone"]);
if (!preg_match ('/^[0-9]{10}+$/', $phone)) {
$perror = "Phn no is not valid";
if(empty($_POST["website"])) {
$werror = "This field cannot be empty!";
else {
$website = test_input($_POST["website"]);
               (!preg_match("\b(?:(?:https?|ftp):\\\)|-a-z0-
9+\&@\#/\%?=\sim[!:,:]*[-a-z0-9+\&@\#/\%=\sim[]/i",\$website))
$werror = "URL is not valid";
```



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

```
if (empty($_POST["comment"])) {
$cerror = "";
else {
  $comment = test input($ POST["comment"]);
} }
function test input($data)
data = trim(data);
$data = stripslashes($data);
$data = htmlspecialchars($data);
return $data:
}
?>
<span class="error">* required field </span>
<form
             method="post"
                                    action="<?php
                                                          echo
htmlspecialchars($ SERVER["PHP SELF"]);?>">
Name: <input type="text" name="name">
<span class="error">* <?php echo $nerror;?></span><br/><br/>>
E-mail: <input type="text" name="email">
<span class="error">* <?php echo $merror;?></span><br/><br/>>
Phone no: <input type="text" name="phone">
<span class="error">* <?php echo $perror;?></span><br/><br/>>
Website: <input type="text" name="website">
<span class="error">* <?php echo $werror;?></span><br/><br/>>
Comment:
                <textarea
                              name="comment"
                                                     rows="5"
cols="40"></textarea><br/>
<input type="submit" name="submit" value="Submit"></form>
<?php
echo "<h2>Your Input:</h2>";
echo $name; echo "<br>";
echo $email; echo "<br>";
echo $phone; echo "<br>";
echo $website; echo "<br>";
echo $comment:
?>
</body>
</html>
```



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		(Any other correct example can be consider and consider any	
		two user input validation)	
5.		Attempt any <u>TWO</u> of the following	12
	a)	Explain different loops in PHP with example.	6M
	Ans.	while loop: If the expression/condition specified with while	1M for
		evaluates to true then the statements inside loop executes and	explanatio
		control is transferred back to expression/condition. The process of	n and
		evaluation and execution	1M for
		Example:	example
		php</td <td>of each</td>	of each
		\$a=1;	
		while(\$a<=5)	Any three
		{	can be
		echo " Iteration \$a";	considered
		\$a++;	
		}	
		?>	
		OR	
		Example:	
		php</th <th></th>	
		\$a=1;	
		while(\$a<=5):	
		echo " Iteration \$a";	
		\$a++;	
		endwhile;	
		?>	
		do-while loop: All the statements inside the loop executes for the	
		first time without checking any condition. The keyword 'do' passes	
		the flow of control inside loop. After executing loop for the first	
		time, expression / condition is evaluated. If it evaluates to true then	
		all statements inside loop again executes and if it evaluates to false	
		then loop exits and flow of control passes to the next statement	
		placed outside the loop. The process of execution and evaluation	
		continues till expression / condition evaluates to true.	
		Example:	
		php</td <td></td>	
		\$a=1;	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22619

do { print("Iteration 1"); \$a++: \}while(\\$a<=0); **for loop:**It is used to execute same set of statements multiple times. In for loop variable initialization, condition and increment / decrement is placed in a single statement. Before starting first iteration a variable is initialized to specified value. Then condition is checked. If condition is true then statements inside the loop executes and variable is incremented or decremented. Control then passes to condition. If condition is false then control passes to the statement placed outside the loop. The process of condition checking, loop statement execution and increment /decrement continues till condition is true. Example : <?php for \$a=1;\$a<=5;\$a++)echo("Iteration \$a"); ?> **for each loop:** This loop works with arrays and is used to traverse through values in an array. For each loop iteration, the value of the current array element is assigned to \$value and the array pointer is moved by one, until it reaches the last array element. **Example:** \$arr=array("Apple","Banana","Orange"); foreach(\$arr as \$fruit) { echo("\$fruit"); } How do you connect MYSQL database with PHP. **b**) **6M Using MySQLi Object Interface:** 3M for Ans.



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SUMMER – 2022 EXAMINATION MODEL ANSWER

\$servername = "localhost"; \$username = "root"; \$password = ""; \$conn = new mysqli(\$servername, \$username, \$password); if (\$conn->connect_error) { relevant statement
\$password = ""; \$conn = new mysqli(\$servername, \$username, \$password); if (\$conn->connect_error) {
\$\frac{1}{5}\conn = \text{new mysqli(\\$servername, \\$username, \\$password);} \text{s for connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \text{connect} \qq \qq \qq \qq \qq \qq \qq \qq \qq \qq \qq \q
if (\$conn->connect_error) { connect
ii (comi > comicet_ciror) (
dia("Connection foiled: " Sconn > connect arror):
die("Connection failed: " . \$conn->connect_error);
myseli close(\$conp):
databas
Explanation:
The first part of the script is three variables (server name,
username, and password) and their respective values. These values 3M for
should correspond to your connection details. explana
Схрини
Next is the main PHP function mysqli_connect (). It establishes a on
connection with the specified database.
When the connection fails, it gives the message Connection failed .
The die function prints the message and then exits out of the script
If the connection is successful, it displays "Connected
successfully." When the script ends, the connection with the
database also closes. If you want to end the code manually, use
the mysqli_close function.
OR
using MySQLi Procedural interface:
php</td
\$servername = "localhost";
\$username = "username";
\$password = "password";
\$conn = mysqli_connect(\$servername, \$username, \$password);
if (!\$conn) { dig("Connection foiled: "mysgli_connect_arrar()):
die("Connection failed: " . mysqli_connect_error());
\$\ \$\\$ql = "CREATE DATABASE myDB";
if (mysqli_query(\$conn, \$sql)) {



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SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code: 22

22619

```
echo "Database created successfully";
} else {
echo "Error creating database: ";
mysqli_error($conn);
}
mysqli_close($conn);
?>
```

Explanation:

The first part of the script is three variables (server name, username, and password) and their respective values. These values should correspond to your connection details.

Next is the main PHP function **mysqli_connect()**. It establishes a connection with the specified database.

When the connection fails, it gives the message **Connection failed**. The **die** function prints the message and then **exits** out of the script If the connection is successful, it displays "**Connected successfully**."

Next, write a sql statement to create a database. If connection established successfully then echo "Database created successfully"; else echo "Error creating database: "

When the script ends, the connection with the database also closes. If you want to end the code manually, use the **mysqli_close** function.

OR

using PDO - PHP Data Object

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
try
{
    $conn = new PDO("mysql:host=$servername;dbname=myDB",
$username, $password);
$conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
echo "Connected successfully";
}
```



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SUMMER – 2022 EXAMINATION MODEL ANSWER

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SUMMER – 2022 EXAMINATION MODEL ANSWER

		\$p1->area(2,3);	
		\$p2=new Percentage();	
		\$p2->area(5,6);	
		?>	
		(Any other relevant logic can be considered)	
6.		Attempt any <u>TWO</u> of the following:	12
	a)	Write a PHP program to demonstrate use of cookies.	6M
	Ans.	Cookies can be used to identify user, managing session, etc.	6M for
		Setting cookies for human identification:	Any PHP
		In the code below, two fields name and year are set as cookies on	program
		user's machine. From the two fields, name field can be used to	•
		identify the user's revisit to the web site.	with
		php</th <th>correct</th>	correct
		setcookie("name", "WBP", time()+3600, "/","", 0);	demonstr
		setcookie("Year", "3", time()+3600, "/", "", 0);	ation for
		?>	use of
		For the first time when user visits the web site, cookies are stored	cookies
		on user's machine. Next time when user visits the same page,	Cookies
		cookies from the user's machine are retrieved.	
		In the code below isset() function is used to check if a cookie is set	
		or not on the user's machine.	
		<html></html>	
		<body></body>	
		php</th <th></th>	
		if(isset(\$_COOKIE["name"]))	
		echo "Welcome " . \$_COOKIE["name"] . " Thanks for	
		Revisiting"." ';	
		else	
		echo "First Time Visitor". " ";	
		?>	
	b)	Explain any four string functions in PHP with example.	6M
	Ans.	1. str_word_count() function: This function is used to count the	0141
	Alls.	number of words in a string.	1M for
		syntax : str_word_count(string,return,char);	1M for
		string: It indicates string to be checked.	explanati
		return :It is optional. It specifies the return value of the	on &
		function.	1/2 <i>M for</i>
		Tunction.	correct
	1	1	33



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SUMMER – 2022 EXAMINATION MODEL ANSWER

0- default. Returns the number of words found. 1- returns an array with the words from the string. 2- returns an array where the key is the position of the word in the string, and value is the actual word. char: Optional. It specifies special characters to be considered as words. Example:	example of each Any four functions to be considered
<pre><?php \$str1="Welcome to WBP Theory & practical"; echo " br> Total words in string str1= ".str_word_count(\$str1,0,"&"); ?> 2. strlen() function: This function is used to find number of characters in a string. While counting number characters from string, function also considers spaces between words. syntax: strlen(string); - string specify name of the string from which characters have to be counted. Example: <?php \$str3="Hello,welcome to WBP"; echo " br> Number of characters in a string '\$str3' = " .strlen(\$str3); ?></pre>	
<pre>3. strrev() function : This function accepts string as an argument and returns a reversed copy of it. Syntax : \$strname=strrev(\$string variable/String); Example : <?php \$str4="Polytechnic"; \$str5=strrev(\$str4); echo "Orginal string is '\$str4' and reverse of it is '\$str5'"; ?> 4. strcmp() function : This function is used to compare two strings</pre>	



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(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Web based Application Development using PHP Subject Code:

22619

with each other. It is a case sensitive comparison.

Syntax: \$result= strcmp(string1,string2);

- string1 and string2 indicates strings to be compared with each other.

-This function returns 0 if both the strings are equal. It returns a value <0 if string1 is less than string2 and >0 if string 1 is greater than string2

Example 1:

<?php

\$str6="Welcome";

\$str7="Welcome";

echo strcmp(\$str7,\$str6);

?>

5. strpos() function: This function is used to find the position of the first occurrence of specified word inside another string. It returns False if word is not present in string. It is a case sensitive function. by default, search starts with 0^{th} position in a string.

Syntax : strpos(String,findstring,start);

- string specify string to be searched to find another word
- findstring specify word to be searched in specified first parameter.
- start is optional. It specifies where to start the search in a string. If start is a negative number then it counts from the end of the string.

Example:

<?php

\$str8="Welcome to Polytechnic";

\$result=strpos(\$str8,"Poly",0);

echo \$result;

?>

6. str_replace() function: This function is used to replace some characters with some other characters in a string.

Syntax : str_replace(findword,replace,string,count);

- Find word specify the value to find
- replace specify characters to be replaced with search characters.
- string specify name of the string on which find and replace has to be performed.



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SUMMER – 2022 EXAMINATION MODEL ANSWER

	- count is optional . It indicates number of occurrences replaced from a string. Example 1: \$str10="Welcome to poly"; \$str11=str_replace("poly","msbte",\$str10); echo \$str11; 7. ucwords() function: This function is used to convert first character of each word from the string into uppercase. Syntax: \$variable=ucwords(\$Stringvar); Example: php \$str9="welcome to poly for web based development"; echo ucwords(\$str9); ? 8. strtoupper() function: This function is used to convert any character of string into uppercase. Syntax: \$variable=strtoupper(\$stringvar); Example: php \$str9="POLYtechniC"; echo strtoupper(\$string into lowercase. Syntax: \$variable=strtolower(\$stringvar); Example: <?php \$str9="POLYtechniC"; echo strtolower(\$stringvar); Example: <?php \$str9="POLYtechniC"; echo strtolower(\$stringvar); Example: <?php \$str9="POLYtechniC"; echo strtolower(\$str9); ?	
c) Ans.	 i) What is inheritance? ii) Write update operation on table data. Inheritance: It is the process of inheriting (sharing) properties and methods of base class in its child class. Inheritance provides re- 	6M 3M for explanatio



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SUMMER – 2022 EXAMINATION MODEL ANSWER

usability of code in a program. PHP uses extends keyword to	n of
establish relationship between two classes.	inheritance
Syntax : class derived_class_name extends base_class_name	
{	
Class body	
}	
- derived_class_name is the name of new class which is also	
known as child class.	
- base_class_name is the name of existing class which is	
also known as parent class.	
aiso known as parent class.	
A derived class can access properties of base class and also can have its own properties. Properties defined as public in base class can be accessed inside as well as outside of the class but properties defined as protected in base class can be accessed only inside its derived class. Private members of class cannot be inherited.	
Example :	
php</td <td></td>	
class college	
{	
public \$name="ABC College";	
protected \$code=7;	
protected \$\phi\code=1;	
class student extends college	3M for
{	update
public \$sname="s-xyz";	operation
public function display()	орегинон
public function display()	
echo "College name=" .\$this->name;	
echo " college code=" .\$this->code;	
echo " student name=" .\$this->sname;	
\$\\\\\$c1=navestudant()\cdot\)	
\$s1=new student();	
\$s1->display();	
?>	
ii) Any correct statements for connecting database and	



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SUMMER – 2022 EXAMINATION MODEL ANSWER

```
updating data in database table
(Any data can be considered for updation)
Update data:
  <?php
  $servername = "localhost";
  $username = "root";
  $password = "";
  $dbname = "ifdept";
  $conn = new mysqli($servername, $username, $password,
  $dbname);
  if ($conn->connect error)
   die("Connection failed: " . $conn->connect_error);
  $sql = "UPDATE student SET rollno=4 WHERE
  name='abc'";
  if ($conn->query($sql) === TRUE)
   echo "Record updated successfully";
  } else
   echo "Error updating record: " . $conn->error;
  $conn->close();
  ?>
```