

# Nirma University

## Institute of Technology

Semester End Examination (IR), May, 2022

B. Tech. in Computer Science and Engineering, Semester- VI

2CSDE69 - LAMP TECHNOLOGY

Roll /  
Exam No.

Supervisor's initial  
with date

Time: 3 Hours

Max. Marks : 100

Instructions:

1. Attempt all questions.
2. Figures to right indicate full marks.
3. Use section-wise separate answer book.
4. Draw neat sketches wherever necessary.
5. Assume necessary data wherever it's required and mention the same.

### SECTION – I

**Q:1 Answer the following questions:**

**[18]**

- A** Explain the importance of user defined function. Demonstrate default value as an argument in PHP user defined function with an example. 06  
CO-1  
BL-3
- B** Exemplify the various types of PHP variable scope. Is it possible to access static scope variable inside the non-static function in PHP? 06  
CO-1  
BL-3 Defend your answer with suitable examples.
- C** Differentiate the following: 06  
CO-1 i) slice() and splice() methods of an array  
BL-4 ii) \$\_GET and \$\_REQUEST variable in PHP

**Q:2 Answer the following questions:**

**[18]**

- A** Discuss the importance of inheritance. Write a PHP script to create a class *Animal* and it's sub-classes *Dog* and *Duck*. Based on the input given by the user, script should display the sound of selected animal. Assume appropriate data member and member function of classes and mention the same. 09  
CO-3  
BL-4

### OR

- A** Explain the object oriented paradigm. Demonstrate the usage of \_\_get() and \_\_set() functions in PHP Class with appropriate code snippets. 09  
CO-3  
BL-4
- B** Explain different ways to handle session in PHP and its importance for web-based application development. Write a PHP program to store the details of last time visited web page in COOKIES and update the same after each visit of webpage, to show the details of the last time visited on web page. 09  
CO-3  
BL-5

**Q:3 Answer the following questions:****[14]**

- A** Create an PHP Script for handling Stack operations with following elements of a form 10  
 CO-3  
 BL-6
- ✓ Text field named item
  - ✓ Text area named listOfItems
  - ✓ Button named insert (push)
  - ✓ Button named delete (pop)

When user clicks insert button, items in the text field must be insert in the Stack, when delete button is clicked item must be deleted from the Stack. In both these operations contents of the Stack must be displayed in the <li> element. Note: Stack must be implemented using Array object of PHP.

- B** Write a PHP script to remove new lines (characters) from a string using regular expression function. 04  
 CO-1  
 BL-3
- Sample strings:** "Twinkle, twinkle, little star,\nHow I wonder what you are.\nUp above the world so high,\nLike a diamond in the sky."  
**Expected Output:** "Twinkle, twinkle, little star, How I wonder what you are. Up above the world so high, Like a diamond in the sky."

**OR**

- B** List out the various types of loops/repetitive statements that exist in PHP. Explain any one with suitable example. 04  
 CO-1  
 BL-3

**SECTION – II****Q-4. Answer the following questions:****[18]**

- A** Differentiate strpos() and strrpos() string function in PHP. Write a PHP script to extract the domain name from the following email ID using string function. 06  
 CO-2  
 BL-3
- Sample String :** 'lampt@nirmauni.ac.in'  
**Expected Output :** 'nirmauni.ac.in'

- B** Explain the purpose of the my.ini configuration file. Describe any three configuration directives, which can be used to alter the behavior when MySQL run. 06  
 CO-2  
 BL-3

- C** What is the significance of introspection functions in PHP? Demonstrate get\_declared\_classes() and get\_parent\_class() functions using required code snippets. 06  
 CO-2  
 BL-5

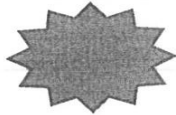

**Q-5. Answer the following questions:****[18]**

- A** Write a PHP script to perform the following operations on file: 12  
 CO-2,3  
 BL-6
- i) Create a file info.txt and write content into the file as "CSE Dept,\nInstitute of Techonology \n Nirma University...."
  - ii) Copy the content from one file to another file line by line using file handling function
  - iii) Count and display the number of lines and characters copied
  - iv) Display the contents of copied file on webpage

**OR**

**A** Write a PHP script to perform the following task:

- CO-2,3  
BL-6
- Make a connection to a MySQL database, and log in with valid credentials. The connection resource should be stored in a variable with an appropriate name. Select the database name as *LAMPT*.
  - Create a **Student** table having fields : Student\_id, Student\_Name, Branch, Batch\_Year, Linkedin\_id, Profile\_picture)
  - If any of these operations cause an error, stop execution and print the error message
  - Search student information based on Branch according to the character typed in textbox. Fetch the Student information from the **Student** table and display it in below mentioned format:

<div style="border: 1px solid black; padding: 5px; text-align: center;">           Profile Picture of Student   </div> <div style="text-align: center;">           Student Name            Branch : CSE            Batch Year: 2021         </div> <div style="text-align: center; border: 1px solid black; padding: 2px;"> <a href="#">Go to Linkedin Page</a> </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;">           Profile Picture of Student   </div> <div style="text-align: center;">           Student Name            Branch : CSE            Batch Year: 2022         </div> <div style="text-align: center; border: 1px solid black; padding: 2px;"> <a href="#">Go to Linkedin Page</a> </div>
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**B** Exemplify the various types of array in PHP. Write a PHP script to sort the following array as per the mentioned details:

CO-1  
BL-4

```
array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"40",  
"Nirmit"=>"20")
```

- ascending order sort by value
- ascending order sort by Key
- descending order sorting by Value
- descending order sorting by Key

**Q:6** Answer the following questions:

[14]

**A** How to prevent Cross Site Scripting (XSS) with PHP? Explain the use of htmlspecialchars() function with suitable example.

CO-2  
BL-5

04

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**B** Write down output of following PHP code segment. If any error(s) in given code segment then mention the error with its details. 10

CO-2  
BL-5

<b>1</b>	<pre> \$m = 'hello'; \$n = &amp;\$m; \$b = "world\$b"; echo @\$flag; echo \$a. " : ".\$b; </pre>
<b>2</b>	<pre> function test(\$msg) {     echo "My message : \$msg"; }  \$var1 = "test"; \$var1("will this work "); echo \$var1; </pre>
<b>3</b>	<pre> \$a=array(0=&gt;"red",1=&gt;"green",2=&gt;"blue"); echo array_shift(\$a)."&lt;br&gt;"; echo 'value at 1 is \$a[1]'; print_r (\$a); </pre>
<b>4</b>	<pre> \$a = "Open Source Technology"; \$c = 3.14; \$d = 7; print "&lt;br&gt; \$a \$a[5] &lt;hr&gt;"; echo \$c + \$d . "&lt;hr&gt;"; </pre>
<b>5</b>	<pre> \$arr = array('Hello','World!','Beautiful','Day!'); echo implode("+",\$arr)."&lt;br&gt;"; echo \$arr[1]; </pre>

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