

NIRMA UNIVERSITY

Institute of Technology

Semester End Examination (IR), May-2018

B. Tech. in Computer Engineering/Information Technology, Semester – VI
CE651 LAMP TECHNOLOGIES

Roll /
Exam No.

Supervisor's Initial
with Date

Time: 3 Hours

Max Marks: 100

- Instructions:
1. Attempt all questions.
 2. Figure to right indicate full marks.
 3. Draw neat sketches wherever necessary.
 4. Assume suitable assumptions and specify them.

Q-1 Answer the following.

[20]

- A) Exemplify different types of PHP variable scope with code snippet. 04
- B) How to pass variable as "Pass by reference" in PHP user defined function? Demonstrate with an example. 04
- C) List and elaborate LAMP components in brief. Also mention benefits of LAMP in detail. 06
- D) Write down output (if any) of following PHP code segments. If error, then mention the error with its details. 06

| | |
|----|---|
| 1. | <code>\$a=array("Nirma","Uni","CE Dept","Nirma","Uni"); print_r(array_count_values(\$a));</code> |
| 2. | <code>echo "Output:"; \$b1=array_fill(2,2,"red"); print_r(\$b1);</code> |
| 3. | <code>\$a1=array("a"=>"red","b"=>"green"); \$a2=array("c"=>"blue","b"=>"yellow"); print_r(array_merge_recursive(\$a1,\$a2));</code> |

Q-2 Answer the following.

[14]

- A) Demonstrate the use of super global variables \$_REQUEST and \$_GET with required code snippets. 06
- B) Write down output (if any) of following PHP code segments. If error, then mention the error with its details. 08

| | |
|----|--|
| 1. | <code>\$str = "Nirma University"; echo str_pad(\$str,26,".");</code> |
| 2. | <code>echo "Output:"; var_dump(str_split("Hello, How are you",-1));</code> |
| 3. | <code>\$str = "This is nice"; echo "Output:". substr_count(\$str,"is",3,3). " ";</code> |
| 4. | <code>\$str = 'one,two,three,four'; print_r(explode(',',\$str,-2));</code> |

Q-3 Answer the following. [16]

- A)** Write down code to design PHP page which insert country details using database store procedure. Consider country table attributes as mentioned below: **08**

- CountyID (Auto increment field)
- Country Name

- B)** Create a class "Book" with following methods and attributes: **08**

Attributes: price, title

Methods:

1. setPrice(price)
2. setTitle(title)

Design a class "Novel" which extends a Book class with following attributes and methods:

Attributes: pages, publisher

1. setPublisher(publisherName)

Initialize Novel class object using constructor and also initialize Book class attributes using novel class object. Create a Novel class object and print the object which displays book price, title and publisher details.

OR

- B)** Why we required to use introspection functions in PHP? Demonstrate any three functions with required code snippets. **08**

Q-4 Answer the following. [14]

- A)** Write down client server programs using PHP socket programming functions for the followings: **08**

1. Client sent number to the server. Once client receive response from the server, it display output to the user.
2. Server find square of the number and send response to the client.

- B)** How to pass user name from one PHP page to another PHP page using cookies? Demonstrate with an example. **06**

OR

- B)** Exemplify custom exception class concept with an example. **06**

Q-5 Answer the following. [12]

- A)** Differentiate: include and require statements in PHP **02**

- B)** Write a PHP script to perform following operations on file: **10**

1. Copy the contents from one file to another file character by character using file handing functions. Verify the copy operation by displaying the contents of second file.
2. Delete file.

OR

- B)** Write a code to design a web page in PHP with HTML form which allows user to upload file in "UserDocument" directory with following restrictions: **10**

1. Create directory "UserDocument" if not exist.
2. Only png, jpg, bmp, doc and docx file can be uploaded.
3. File size should not exceed 1024KB.
4. If file exist in directory than override the previous file on server.

Q-6 An organization have a database named **ProductInfo** and table named **ProductMaster** which have following attributes: ProductNumber (Primary key), Name, Category, DateOfManufacture, ExpiryMonths, CompanyProductUrl, CompanyCustomerCareNumber, CompanyCustomerCareEmailID, Price, Quantity.

Assume suitable data type for the above attributes.

Design PHP pages with HTML form for following functionalities:

1. Update the product record into the database table.
2. Display all product information.

Validate attributes as mentioned below:

1. ProductNumber in format: PRO<CurrentYear><5 digits> (i.e. PRO201804005)
2. Name is required field.
3. Category contains alphabets only.
4. Date Of Manufacture in format yyyy/mm/dd.
5. ExpiryMonths and Quantity contains numeric value.
6. Company Product Url is valid URL.
7. Company Customer Care Number in format: +<Country code 2 digits> - <Area Code 2 digits> - <Number 7 digits>
8. Company Customer Care Email ID should be in proper format. (i.e customercare@domain.com)
9. Price accept value upto two decimal places.

Use PHP validation function(/s) to validate the attributes.
