Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **16CA2018** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WEB TECHNOLOGY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Discuss the evolution of PHP as a scripting language. | CO1 | 5 |
| b. | List the improvements and the special features included in PHP 4 and PHP 5. | CO1 | 10 |
| c. | Justify the popularity of PHP by listing its general language features. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Explain how PHP code can be embedded in HTML with an example. | CO2 | 4 |
| b. | Differentiate between echo() statement and print statement in PHP with the help of an example. Analyse when the developer should use either statement. | CO1 | 4 |
| c. | Explain with example how to add comments in PHP for  i) single line statement ii) multi line statements | CO1 | 4 |
| d. | State the use of the following type specifiers in printf() statement  i) %b ii)%c iii) %d iv) %f  v) %o vi) %u vii) %s viii) %x | CO1 | 8 |
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| 3. | a. | Explain the use of switch statement in PHP with an example. | CO1 | 6 |
| b. | Discuss how functions can be created in PHP by using |  |  |
|  | i. Pass by value. | CO1 | 4 |
|  | ii. Pass by reference. | CO1 | 4 |
| c. | Write a program in PHP to find the factorial of a number using recursion. | CO1 | 6 |
| (OR) | | | | |
| 4. | a. | Explain the different functions that can be used to traverse an array. | CO1 | 6 |
| b. | Discuss with examples the predefined functions to  i) merge two arrays ii) slice an array iii) splice an array  iv) find common elements in two arrays | CO1 | 8 |
| c. | Write PHP statements to  i) print the array ii) create an array of even numbers  iii) reverse the array . | CO1 | 6 |
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| 5. | a. | Explain the following Object Oriented Concepts with respect to PHP  i) encapsulation ii) inheritance iii) polymorphism  iv) classes v) objects | CO1 | 10 |
| b. | Explain the use of static class members in PHP with an example code. | CO1 | 4 |
| c. | Explain how constructors and destructors can be created for a class in PHP. | CO1 | 6 |
| (OR) | | | | |
| 6. | a. | Explain with example the following field scope for classes(data members) in PHP.  i) public ii) private iii) protected iv) final v) static. | CO1 | 10 |
| b. | Explain the need and use of inheritance in PHP using classes with an example. | CO1 | 10 |
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| 7. | a. | Discuss the need for predefined function library in PHP and state the syntax and use of any five predefined functions in PHP with examples | CO3 | 10 |
| b. | Mention the string functions in PHP that will perform the following operations with the syntax and example |  |  |
| i | Counting the number of words in a string | CO3 | 2 |
| ii | Padding the string with spaces | CO3 | 2 |
| iii | Reversing the string | CO3 | 2 |
| iv | Repeating a string pattern multiple times | CO3 | 2 |
| v | Finding the length of the string | CO3 | 2 |
| (OR) | | | | |
| 8. | a. | Explain the need for cookies in PHP with an example. | CO5 | 10 |
| b. | Write a PHP code to find the number of times a webpage has been viewed by the user using session variables. | CO5 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Mention the features of MySQL that make it a widely used relational database server. | CO4 | 10 |
| b. | Write a PHP script to create a database Course and create a student table with in the database with field ( student-id, student name, student age). | CO6 | 4 |
| c. | Write a PHP script to insert records of student table through form and display records in table format. | CO6 | 6 |