

MARIS STELLA COLLEGE, VIJAYAWADA-8

(An autonomous college affiliated to Krishna University)

Department of Computer Science

Title : PHP Programming

Semester : VI

Paper Code: COMPC080

Course Objectives: Learn how to

- Write PHP programs that access form data.
- Create and use PHP variables.
- Construct strings that include the values of PHP variables.
- Gain the PHP programming skills needed to successfully build interactive, data-driven sites
- Test and debug a PHP application
- Work with form data
- Work with regular expressions.
- Create a database in phpMyAdmin.
- Read and process data in a MySQL database.

Course outcomes for PHP:

On completing the course, students will be able to:

- Understand process of executing a PHP-based script on a web server.
- Be able to develop a form containing several fields and be able to process the data provided on the form by a user in a PHP-based script.
- Understand basic PHP syntax for variable use and standard language constructs, such as conditionals and loops.
- Understand the syntax and use of PHP object-oriented classes.
- Understand the syntax and functions available to deal with file processing for files on the server as well as processing web URLs.
- Develop, test and deploy a term project web-based system.

Syllabus

Unit-I:

6 Hrs

PHP Introduction: PHP introduction, inventions and versions, important tools and software requirements. PHP with other technologies and scope of PHP.

Building blocks of PHP: Basic syntax, Variables, Data Types, Operators and Expressions, Constants.

Flow Control Functions in PHP: Switching Flow, Loops, Code Blocks and Browser Output.

Unit-II:

6 Hrs

Working with Functions: Defining Functions, Calling functions, returning the values from User-Defined Functions, Variable Scope, Saving State between Function calls with the Static statement, more about arguments.

Working with Arrays: What are Arrays, Creating Arrays, Some Array-Related constructs and Functions?

Unit-III:

8 Hrs

Working with Objects: Creating an Object, Object Inheritance.

Working with Strings, Dates and Time: Formatting Strings with PHP, Investigating Strings with PHP, Manipulating Strings with PHP, Using Date and Time Functions in PHP.

PHP Regular Expressions: Use and advantage of regular expression over inbuilt function. Use of preg_match(), preg_replace(), preg_split() functions in regular expression.

Unit-IV:

8 Hrs

Working with Forms: Creating Forms, Accessing Form - Input with User defined Arrays, Combining HTML and PHP code on a single Page, Using Hidden Fields to save state, Redirecting the user, Sending Mail on Form Submission, Working with File Uploads.

Unit- V:

8 Hrs

Working with Files and Directories: Including Files with include(), Validating Files, Creating and Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files, Writing or Appending to a File, Working with Directories, Open Pipes to and forkmm Process Using popen (), Running Commands with exec(), Running Commands with system () or passthru ().

Working with Images: Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image, Getting Fancy with Pie Charts, Modifying Existing Images.

Reference Books:

1. Julie C. Meloni, PHP MySQL and Apache, SAMS Teach Yourself, Pearson Education

(2007).

2. XueBai Michael Ekedahl, The Web Warrior Guide to Web Programming, Thomson (2006).

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BLUE PRINT OF MODEL PAPER

- ❖ The paper consists of two sections.
- ❖ All questions are compulsory from all parts.

SECTION – A

- ❖ Consists of Ten short answer questions from five units.
- ❖ Each question carries **1 Mark**.

SECTION – B

- ❖ Consists of five essay answer questions from **five units** with internal choice.
- ❖ Each question carries **10 Marks**.

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Model Question Paper

Title : PHP Programming

Paper Code: COMPC080

Marks: 60

Semester : VI

Max.

Time: 3 Hrs

Section – A

Answer all the questions.

10*1=10M

1.

- a. List various data types in PHP.
- b. Different constants in PHP.
- c. Define Array.
- d. What is an object?
- e. Write the date and time functions in PHP?
- f. How to upload file.
- g. What is a file?
- h. What is a directory?
- i. Write a short note on PHP images.
- j. How to draw a new image?

Section – B

Answer the following:

5*10=50M

2. (a). Explain in detail about functions in PHP.

OR

(c). Explain various operators and expressions in PHP.

3. (a). Explain in detail about Date and time functions in PHP.

OR

(b). Explain briefly about arrays in PHP.

4. (a). What is a form? Explain in detail about forms in PHP.

OR

(b). Explain in detail about cookies.

5. (a). Explain in detail about files in PHP.

OR

(b). Explain in detail about directories in PHP.

6. (a). Explain in detail about images in PHP.

OR

(b). Explain about modifying existing images.