2023
B.A./B.Sc.
Fifth Semester
DISCIPLINE SPECIFIC ELECTIVE – 1
COMPUTER SCIENCE
Course Code: CSD 5.11
(PHP Programming)

Total Mark: 70   *Pass Mark: 28*
Time: 3 hours

Answer <u>five</u> questions, taking <u>one</u> from each unit.

UNIT–I

1. (a) Write a brief note on PHP.   3
   (b) What is the difference between server-side and client-side scripting language? Why is PHP called a loosely typed language?   2+2=4
   (c) What are the types of operators used in PHP? Write PHP code to read two integer numbers and display their sum and product.

                                                        2+5=7

2. (a) What is the main purpose of using scripts? Why should we use PHP instead of other similar technologies?   1+3=4
   (b) What is XAMPP? Explain the software requirement needed to develop and run PHP on a windows system.   2+3=5
   (c) Explain the usage of variables in PHP with proper example.   5

UNIT–II

3. (a) What are the necessary elements for building a form? What step(s) are involved in form handling in PHP?   2+2=4
   (b) Write a program to create a PHP page with a form containing the following fields and display the retrieved data:
   Students Name, Roll No, Email, Gender, Semester, and Department.
                                                        10

4. (a) How is form method different from form action? Explain GET form method with proper example. 2+4=6

   (b) Explain with an example the process of building a form and embedding PHP in HTML to retrieve data. 8

UNIT–III

5. (a) What is a conditional statement? What are the different types of conditional statements used in PHP? 1+2=3

   (b) What do you understand by implicit and explicit casting in PHP? How can you use the "?" operator in PHP? 2+2=4

   (c) Distinguish between "while" and "do-while" loop with proper example. 7

6. (a) Write a PHP program for array manipulation. 7

   (b) Write a PHP program to retrieve user entered data as array elements and find the sum of elements in an array. 7

UNIT–IV

7. (a) How can you create function in PHP? Give example. What is the purpose of using functions? 2+2=4

   (b) What do you understand by user-defined and in-built functions? How can you incorporate a PHP file inside another PHP file?

   2+2=4

   (c) Explain the different ways a function can return values in PHP. 6

8. (a) What is the purpose of using `include_once` instead of `include` directive? 2

   (b) Differentiate between the following giving example: 4×3=12
       (i) `sort()` and `rsort()`
       (ii) `strtoupper()` and `strtolower()`
       (iii) `print()` and `printr()`

UNIT–V

9. (a) Write the different ways of creating strings in PHP. Explain single-quote strings and double-quote strings with example. 1+3=4

(b) How can you count the length of a string and also reverse a string in PHP? Give suitable example. 2+2=4

(c) Write a PHP program to search for a particular word/string irrespective of case, replace it with another word/string (case insensitive replacement) and also display the number of times it is replaced. 6

10. (a) Explain any two pre-defined functions used for regular expressions in PHP. 6

(b) What do you understand by regular expressions? Write a PHP program using `preg_match()`. 2+6=8

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