

University of Ruhuna- Faculty of Technology
Bachelor of Information & Communication Technology Honours Degree
Level 1 (Semester II) Examination, Nov/Dec 2022
Academic year 2020/2021

Course Unit: ICT1233 Server-Side Web Development (Written)

Duration: 2 hours

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- Answer all *Four (04)* questions.

1)

a)

- What is meant by server-side scripting.
- Briefly explain the behavior and the scope of static variables in the PHP programming language.
- Write three (03) differences between client-side scripting and server-side scripting.
- List four (04) rules we should consider when naming a variable.

b)

- Write down the exact output generated by the following PHP code.

```
<?php
for ($num=0;$num<=6;$num++){
    if($num==2){
        continue;
    }
    echo "Number=" . $num . "<br>";
    if($num==4){
        break;
    }
}
?>
```

- Fibonacci series is a series of numbers in which each number (Fibonacci number) is the sum of the two preceding numbers. *Ex. 0, 1, 1, 2, 3, 5,.....* Write a PHP program to display the first 10 numbers of the Fibonacci series.

2)

a)

i) Briefly explain the features of associative arrays in PHP and explain two ways of defining associative arrays using two examples.

ii) Consider that you are given the following data set consisting of four records.

{{(Indika , 40 , C), (Oshadi , 65 , B), (Ayesha , 87 , A), (Imalsha , 30 , D)}

Write a PHP code segment to store the above records in a multi-dimensional array and display the array contents as shown below .

Name	Marks	Grade
Indika	40	C
Oshadi	65	B
Ayesha	87	A
Imalsha	30	D

b)

i) Write three (03) advantages of using functions in PHP programming.

ii) What do you mean by 'call by value' and 'call by reference' in PHP functions? Give a simple PHP code example for each method.

iii) Write a PHP code to perform the following tasks.

- I. Declare the variable \$string with the string value "Just one small positive thought in the morning can change your whole day".
- II. Print the length of the string.
- III. Reverse and print the string.
- IV. Remove the whitespaces of both sides of the string.
- V. Find and print the number of occurrences of the letter "o" in the string.
- VI. Break the string into parts of 4 characters each and store those parts in an array, and print that array .

3)

a)

- i) List three (03) PHP file opening modes and explain their functionalities.
- ii) Write a PHP code to read a single line from an existing file named 'Question1.txt'.
- iii) Write a PHP code to perform the following tasks assuming that you have a file named 'Question2.txt'.

- I. Open the file 'Question2.txt' in read/write mode.
- II. Write the string 'Hello world!!' to the file 'Question2.txt'.
- III. Set the file pointer to the 0th position using the rewind() function.
- IV. Write the string 'Good morning Sri Lanka' to the file 'Question2.txt' on the 0th position.
- V. Print the content of the file 'Question2.txt' on the screen.

b)

- i) Briefly explain three (03) differences in GET and POST methods.
- ii) Assume that you are getting the data entered in the form below through the POST method.

Name :

Email:

Age:



Write a PHP code to accomplish the following tasks.

- I. To get the user input from the form and print "Welcome <<name>> , you are <<age>> years old...!!".
- II. A function named "checkEmail" to validate the entered email address. If the user enters an invalid email, display 'Invalid email format'.
- III. A function named "checkAge" to validate the age by checking whether the input contains only numbers.

4)

a)

- i) Briefly explain two (02) types of cookies and their differences.
- ii) Briefly explain two (02) uses of cookies with examples.
- iii) PHP provides setcookie() function to set a cookie. List down the arguments required by the function and briefly explain three(03) of them.
- iv) There are many differences can be seen between PHP sessions and cookies. Mention three(03) main differences between PHP sessions and PHP cookies.

b)

- i) Briefly describe what a PHP session is.
- ii) Mention three (03) instances when you should use PHP sessions.
- iii) Write a PHP code to perform the following tasks.
 - I. Start a new session.
 - II. Create two session variables, namely 'CourseId' and 'CourseName' and initialize them to "ICT1233" and "Server-side Web Development" respectively.
 - III. Print the session data previously stored.
 - IV. Remove the data from the 'CourseName' session variable.

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