Syll. 3

University of Ruhuna - Faculty of Technology

Bachelor of Information & Communication Technology Level 2 (Semester 1) Examination - October 2018

Internet Application Development (Theory) - ICT2153

Time: 2 hours

2.

Answer all four questions

1

- a. State whether each of the following statement is true or false
- i. PHP, JavaScript and JSP are examples for server side scripting languages
- ii. LAMP is an open source Web development platform
 - iii. In a php script, the php scripting block should be included before any of the html tags
 - iv. PHP is not platform independent
 - v. PHP variable names cannot start with a number

- ii. Briefly explain the behavior and the scope of static variables in PHP programming language
- iii. Draw the exact output produced by the following PHP code segment

Number = 0 Number = 1 Number = 3 Number = 4

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- Briefly explain 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 consists of three records {(Peter,23,M), (Jane,34,F), (Carl,22,M)}

Write down a PHP code segment to store the above records in a multi-dimensional array and produce the following table output

Name	Age	Gender
Peter	23	M
Jane	34	F
Carl	22	M

c.

iii. Consider the PHP code segment given below and write down the exact output produced by each of the statement labeled with 1,2,3,4 and 5

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arroy (cor, 23, m)

arroy (cor, 22, m)

or (drown ; front)

echo ZINI echo Name; ZNI

echo ZINI echo Age ZINI

echo ZINI echo Gender ZI

for zoleo 30123 :col+1)

echo ZIES

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2.

a.

- i. Write two advantages of using functions in PHP programming
- ii. Explain 'pass by reference' in php functions
- b.
 i. Briefly explain the return values of each of the following PHP functions and when it can be useful.
 - 1. func num args()
 - 2. func get arg(position)
 - 3. func get args()
- ii. Fill in the six blanks in the following PHP code segment and rewrite the program to produce the output given in Figure 1 below

The above example will output:

Number of arguments: 4
Second argument is:2
Argument 0 is 1
Argument 1 is 2
Argument 2 is 3
Argument 3 is 4

Figure 1

- c.
- i. Briefly explain the use of 'a' and 'w+' modes of fopen() function in php file handling
- ii. Write a PHP code segment to satisfy the following requirements.
 - Open a file and write the text "Hello world!".
 - Reopen the file and write the text "Hi everyone" at the end of the first line.

Note: Close the file when it is required.

- 3.
- A client used GET method to request data from a server. Write down two limitations of GET method with compare to POST method.
- Explain features of superglobal arrays in PHP and provide two occasions when it has been used.
- iii. Create the form given in Figure 2, using php & html.
 - If the user selects "Male" radio button and clicks on Submit button, the message "You have selected: Male" should be displayed
 - If the user selects "Female" radio button and clicks on Submit button, the message "You have selected: Female" should be displayed

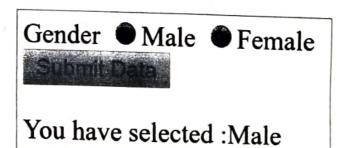


Figure 2:Form

- b.
 - i. What is the purpose of using \$this variable in object oriented PHP?
- ii. Briefly explain why do we use static methods in Object Oriented PHP programming

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iii. Use Object Oriented PHP to implement the following class

Person FirstName Age setFirstName():void getFirstName():string setAge():void getAge():int

Display the following information by using the getter and setter methods with a instance of Person class

FirstName: Albert, Age: 23

4. a.

- i. Write two PHP scripts using following guidelines
 - Assign the session variables 'user' with the value "Admin" and 'id' with the value '001'
 - Check whether the variable 'user' is set. If it is set, then print "User is xxxx" (xxxx = the value of the user variable) and finally free the variable user.

b.

- i. Explain how PHP cookies work
- ii. Name two types of cookies and explain each of them separately
- iii. Write a PHP code segment to create and display a cookie according to the following requirements.
 - Name of the cookie is "UserName" and it holds the value "admin"
 - Domain of the cookie is localhost
 - The cookie must expire after an hour and it should be valid for all the directories

- i. Consider the following PHP-MySQLi functions
 - A. mysqli fetch_array()

c.

- B. mysqli_fetch_row()
- C. mysqli_fetch_assoc()
- D. mysqli_affected_rows()
- E. mysqli_num_rows()

Match the suitable php mySQLi functions from the above list which describe the following functionalities

- 1. Returns a row from a recordset as an indexed array
- 2. Fetch a result row as an associative array, a numeric array, or both
 - 3. Fetch a result row as an associative array
 - 4. Takes a MySQL result index as its parameter, and returns the number of rows inside that result
- Consider the following "User" table in "Library" database and the server connection details.

name	age
James	20

- · Servername: localhost
- User: root
- Root password: 123

Write a php code segment to update the age as 22.

Note: Display errors, when there are failures in connection establishment and query execution

A