

UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND SEMESTER, 2018/2019 ACADEMIC YEAR

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

COMP 441: CLIENT-SERVER SIDE PROGRAMMING

STREAM: Y4S2 TIME:

EXAMINATION SESSION: JAN- APRILDATE:

INSTRUCTIONS:

Answer Question 1 and any other 2 Questions

QUESTION ONE [30 MARKS]

a)	Define the term open source		
b)	Demonstrate how variables are declared in PHP scripting		(2 Marks)
c)	What is the difference between the following PHP access modifiers:		
	(i)	Public	(2 Marks)
	(ii) I	Protected	(2 Marks)
	(iii) I	Private	(2 Marks)
d)	Briefly o	discuss the Architecture of the Linux Operating System	(5 Marks)
e)	List TH	REE broad categories of MySQL datatypes	(3 Marks)
f)	Write a simple PHP code to demonstrate how one can connect to MySQL and select a		
	database		(4 Marks)
g)	Why is 1	PHP a popular scripting language?	(5 Marks)
h)	Briefly e	explain how to declare a user-defined function in PHP	(3 Marks)

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SECTION B: ANSWER ANY TWO QUESTIONS

e) Explain how to create MySQL database using PHP

QUESTION TWO [20 MARKS]

a) Define an Array (2 Marks)
b) Explain **THREE** types of arrays that be created in PHP (6 Marks)
c) Briefly explain the output of the following program (4 Marks)
<?php
\$cities = array("London", "Paris", "New York");
var_dump(\$cities);
?>
d) What is proprietary software? (2 Marks)

(6 Marks)

QUESTION THREE [20 MARKS]

- a) What is the function of PHP logical Operators? (2 Marks)
- b) Study carefully the below PHP program. Clearly describe the output of the program upon execution. Use diagrams where possible. (6 Marks)

- c) Differentiate client-side script and server-side script (4 Marks)
- d) Explain **FIVE** responsibilities of a database administrator (5 Marks)
- e) State **THREE** examples of open source web browsers (3 Marks)

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QUESTION FOUR [20 MARKS]

a) Explain FIVE advantages of MySQL (5 Marks)

b) Using a user-defined function, write a simple PHP program to displays today's date

(5 Marks)

c) Write MySQL code that creates a table with the following field name: (5 Marks)

empNo, empName, empBasicSalary, empHouseAllowance, empPhoneNo

d) Write MySQL code to insert at least one record into the above table in (a) (5 Marks)

QUESTION FIVE [20 MARKS]

a) What is a string? (2 Marks)

b) Write a PHP script that counts the number of words in a string (5 Marks)

c) Discuss FIVE advantages of open source in software development (5 Marks)

d) Explain the meaning of the following:

(i) Function overriding (2 Marks)

(ii) Function overloading (2 Marks)

e) What is the difference between arsort() and krsort() functions in an array? (4 Marks)

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