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Trincomalee Campus, Eastern University, Sri Lanka

Faculty of Applied Science

Department of Computer Science

Bachelor of Computer Science (2015/2016)

Year II Semester I Examination (January 2018)

CO2114 Practical work on CO2124

Answer All Questions

Time Allowed: Two (02) hours

Important:

- Create a main folder in your desktop and name it with “Your Index No” (eg: 2015COM40)
- Save answers for the following questions inside the above folder with appropriate file names.

Q1. Create an HTML page by writing PHP script for a simple calculator which can perform the basic operations of addition, subtraction, multiplication, division and mod on the given two numbers and show result to user.

- You have to perform the validation check on user input values and show error.
- Message in case if user input is invalid.
- The sample HTML form can be like the following.

Basic Arithmetic Calculator

Number 1:

Number 2:

Select Operation to do:
☐ Addition ☐ Subtraction
☐ Division ☐ Multiplication

[40 Marks]

Q2. Use MySQLi Object-Oriented method to answer the following questions.

You can assume the following when answering the questions.

servername = "localhost"

username = "root"

password = ""

- (i) Write a PHP code to check the connection to MySQL. If the connection is successful print a message as "Connection Successful", otherwise print a message as "Connection failed". Save this code as "test_con.php".

[10 Marks]

- (ii) Write appropriate PHP code to create a database called "fasDB". If the database is created successfully print a message as "Database created successfully", otherwise print a message as "Error creating database". Save this code as "create_db.php".

[15 Marks]

- (iii) Write suitable PHP code to create a table named "**Students**", with nine columns: "title", "firstname", "lastname", "reg_no", "index_no", "date_of_birth", "email", "course" and "address". If the table is created successfully print a message as "Table Students created successfully", otherwise print a message as "Error creating table". Save this code as "table.php".

Use the following information when you create the fields.

Field	Data type	Constrains / Other Conditions
title	VARCHAR	Maximum 05 characters
firstname	VARCHAR	Maximum 40 characters
lastname	VARCHAR	Maximum 40 characters
reg_no	VARCHAR	Maximum 20 characters
index_no	integer	PRIMARY KEY,AUTO_INCREMENT
date_of_birth	TIMESTAMP	-
email	VARCHAR	Maximum 50 characters
course	VARCHAR	Maximum 20 characters
address	VARCHAR	Maximum 60 characters

[15 Marks]

- (iv) Write suitable PHP code and insert at least five suitable records to the "Students" table. Save this code as "inset_table.php".

[20 Marks]