



TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

REGULAR PROGRAMME

BIT 2207: INTERNET APPLICATION PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep 2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. AttemptChoose instruction.

Do not write on the question paper.

Question ONE

- a) Define the term common gateway interface as used in PHP-MYSQL. [2 marks]
- b) List three types of connections used with PHP and MYSQL. [3 marks]
- c) Demonstrate how the PHP var_dump () function returns the data type and value for any four data types in PHP. [6 marks]
- d) Demonstrate the use of the three PHP Logical Operators with two variables \$x=100 and \$y = 50. [6 marks]
- e) Create a PHP class called Bird with two properties *canFly* and *legCount*. Create a parametrized constructor and two methods, *canFly ()* and *getLegCount ()* for the class. [5 marks]
- f) Demonstrate how a sub class ostrich can be extended from the Bird class in e above. [2 marks]
- g) Write a PHP script that prints the statement" ostrich can't fly" from part (f) above. [6 marks]

Question TWO

- a) Write a PHP array called students that stores three names: Tom, Bill and Zack and prints the contents using a loop. [4 marks]
- b) Use a two –dimensional array to store the data in the table below. [4 marks]

Name	Stock	Sold
Volvo	22	18
BMW	15	13
Saab	5	2
Land Rover	17	15

- c) Write a PHP script that inserts one record with values: v1, v2 & v3 into a database table with three columns, col1, and col2 & col3. [6 marks].
- d) Differentiate between server side programming and client side programming. Give at least two uses for each.

[6 Marks]

Question THREE

- a) State four advantages of MYSQL database in internet application development. [4 marks]
- b) List four applications of PHP scripting language as used in internet application programming. [4 marks]
- c) Write a PHP OOP script that inserts into a table, tb1 with three fields; col1, col2 & col3. The values are: v1, v2 & v3. Show how to display feedback. [6 marks]
- d) Demonstrate how update column x having id = 2 with value = y using a prepared statement. Show how to provide feedback about the update. [6 marks]

Question FOUR

- a) Write PHP-MYSQLi object oriented script that deletes the first record from table *tb3* below. [5 marks]

table3 *tb3*

id	col1	col2	col3
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1	a	d	g
2	b	e	h
3	c	f	j

b) Write PHP-MYSQLi object oriented script that updates the record with id=2 in table *tb3* above. [5 marks]

c) Write the PHP-MYSQL script that displays the contents of the table *tb3*. [10 marks]

Question FIVE

a) A student creates an html form with three input fields and a submit button as shown below.

Variabl1:

Variabl2:

Variabl3:

- i. Write the html code for the form [4 marks]
- ii. Write the PHP code for that can collect values of input fields and display the on the page [5 marks]

c) Suppose that you have to implement a class named *Dragonball*. This class must have an attribute named *ballCount* (which starts from 0) and a method *iFoundaBall*. When *iFoundaBall* is called, *ballCount* is increased by one. If the value of *ballCount* is equal to seven, then the message you can ask your wish is printed, and *ballCount* is reset to 0. Demon stare with PHP code how would you implement this class. [6 marks]

d) Explain what you understand by SQL Injections, stating how you would prevent. [5 marks]