



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

CMT 209: WEB DESIGN AND DEVELOPMENT

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) i) What is the use of "echo" in php? Show example **(3 Marks)**
- ii) What is the difference between include and require? **(3 Marks)**
- iii) Given the below output can you display the php coding for it?
(4 Marks)
- My first PHP page**
Hello World!
- b) i) What is the difference between MySQLi and PHP Data Objects?
(4 Marks)
- ii) What the difference between Authentication and Authorization?
(3 Marks)
- iii) What is sql injection?
(3 Marks)
- c) i) Explain the difference between SOAP message and WSDL?
(3 Marks)

ii) What is the difference between var_dump and print_r? **(3 Marks)**

iii) How can data be retrieved in the result set of MySQL using PHP? **(4 Marks)**

Q2. a) Explain the different errors in PHP? **(6 Marks)**

b) How can PHP and JavaScript interact? **(4 Marks)**

c) Explain any of the five dimensions of E-commerce Security? **(10 Marks)**

Q3. a) What are the different scenarios under which an xml schema may be used? **(8 Marks)**

b) Given the coding below can you display the correct output? **(5 Marks)**

```
<html>
<body>

<form action="welcome.php" method="post">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>

</body>
</html>
```

c) Explain how WSDL can bind to SOAP? **(7Marks)**

Q4. a) How can we optimize or increase the speed of a MySQL select query? **(7 Marks)**

b) What are the differences between mysql_fetch_array(), mysql_fetch_object(), mysql_fetch_row()? **(7 Marks)**

c) What is the correct output for the array below? **(6 Marks)**

```
<!DOCTYPE html>
<html>
<body>

<?php
$cars = array("Volvo", "BMW", "Toyota");
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
```

```
?>
```

```
</body>  
</html>
```

- Q5. a) How can WSDL file be validate? **(6 Marks)**
- b) The following example demonstrates a loop that will output the values of the given array (\$colors), show the output **(6 Marks)**

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$colors = array("red", "green", "blue", "yellow");  
  
foreach ($colors as $value) {  
    echo "$value <br>";  
}  
?>  
  
</body>  
</html>
```

- c) What is the maximum length of a table name, database name, and fieldname in MySQL? **(8 Marks)**

END