

TECHNICAL UNIVERSITY OF KENYA

**FACULTY OF APPLIED SCIENCES AND TECHNOLOGY**

**SCHOOL OF COMPUTING & INFORMATION TECHNOLOGY**

**END OF SEMESTER EXAMINATION SERIES**

**SECOND SEMESTER EXAMINATIONS 2017/2018**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF**

**BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY**

#### ECII 2204 : ADVANCED WEB DEVELOPMENT

#### TIME: 2 HOURS

**Instructions to candidates:**

This paper consists of FIVE Questions.

Answer Question ONE [30 Marks] and any other TWO Questions [20 Marks Each].

Write your college number on the answer sheet.

This paper consists of 3 printed pages

**Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

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#### QUESTION ONE [3O MARKS] COMPULSORY

1. Distinguish between socket, port and IP Address. (3 marks)
2. Distinguish between POST and GET methods and give an example of its application in php in each case. (4 marks)
3. Write php server response program for a stream socket. (6 marks)

Table employee

* emp\_id INT Primary Key - emp\_name VARCHAR
* emp\_address VARCHAR - emp\_salary INT

1. Using the information above write suitable $sql variable statement to
2. Create table employee
3. Insert data into the employee table.
4. Select data from the employee table
5. Delete a particular employee record
6. Update employee record (10 marks)
7. Write suitable php code to store the information given below in a multidimensional array.

Marks physics 35

Maths 30

Chemistry 39

Mohammed physics 40

Maths 50

Chemistry 45

Mary physics 35

Maths 54

Chemistry 46 (7 marks)

QUESTION TWO [2O MARKS]

1. Explain why MySQL and PHP are preferred choice in internet application programming.(4 Marks)
2. Write suitable PHP code to create database called test.db (user=root, password=’’, host=localhost) (6 marks)
3. Explain THREE types of operators and give an example in each case. (6 marks)
4. Write suitable php code to split the IP address 123.456.789.000 into

123

456

789

000 (4 marks)

#### QUESTION THREE [2O MARKS]

1. Using foreach loop statement, write a suitable php program to give the output given below from a numeric array. (9 marks)

Value is 1

Value is 2

Value is 3

Value is 4

1. Write a php HTTP request program for a stream socket. (5 marks
2. Explain the code and the output of the program shown below. (6 marks)

<html>

<body>

<?php

function add($x ,$y)

{

$total=$x+$y;

return $total;

}

?>

echo "1 + 16 = " . add(1,16);

</body>

</html>

#### QUESTION FOUR [2O MARKS]

1. Write suitable php/html code to:
2. Create the form shown below (4 marks)
3. Capture the data from the form and output .

Welcome \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Years old (5 marks)



1. Illustrate the following file operations in php code.
2. Opening file “myfile.txt” and add the message “welcome to my website” at the beginning of the file. (5 marks)
3. Open the file “myfile.txt” and display its content. ( 6 marks)

#### QUESTION FIVE [2OMARKS]

1. i) Write suitable HTML code to create the uploader form shown above (6 Marks)
2. Write suitable php code to display the current date in the format dd/mm/yy. (4 marks)
3. Distinguish between error handling and exception handling and give an example of each.

( 6 marks)

1. Explain the code and the output of the program shown below. (4 marks)

<?php

$userinfo = "Name: <b>John Poul</b> <br> Title: <b>PHP Guru</b>";

preg\_match\_all ("/<b>(.\*)<\/b>/U", $userinfo, $pat\_array);

print $pat\_array[0][0]." <br> ".$pat\_array[0][1]."\n";

?>