

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

Select department

UNIVERSITY EXAMINATION FOR:

INSTITUE OF COMPUTING AND INFORMATICS
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
BACHELOR OF SCIENCE IN MATHEMATICS AND COMPUTER SCIENCE
(BTIT/SEP 2013 Y3S1-JFT/BMCS 12S Y4S2)
EIT 4310/EIT 4453: Advanced Web Application Programming Exam 1

END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE:Pick DateMay2016

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

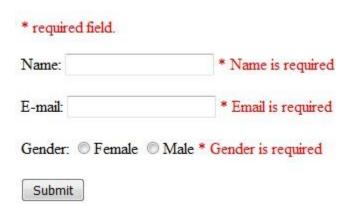
a.	Differentiate between client side and a server side programming	[2 marks]
b.	Explain what you understand by Model View Controller pattern as used in we	eb applications. [5 marks]
c.	Describe what you understand by a PDO class	[2 marks]
d.	Differentiate between GET, e POST and REQUEST methods	[6 marks]

- e. Describe how AJAX speeds up server responses to requests
- f. Describe three merits of using MYSQL database over other database programmes. [3 Marks]
- g. The form below has three fields: First Name, Last Name and Age. Write a non-validated PHP script that can post the three form content to a database [7 Marks]

[5 marks]

First Name:	Last Name:	Age:	Submit Query
Question TWO			
	repared statement" as used in red statements work antages of using prepared stater		[2 marks] [6 marks] eries [6 marks]
d) Write an PHP/MSC	QL statement that uses a prepare	ed statement	[6 marks]
Question THREE			
a. Write a PHP scrip	t to check if a string contains spe	ecific string?	[4 marks]
	uick brown fox jumps over the la		
b. Explain the behav	vior of the htmlspecialchars () fur	nction	[3 mark]
c. Describe the action	escribe the actions of the \$_SERVER["PHP_SELF"] variable [3 marks]		[3 marks]
d. Write a PHP/MYS displays it on the	QL script that selects the id, first page as follows.	name and lastname co	lumns from the students table a [10 marks]
d: 1 - Name: John Ka d: 2 - Name: Mary M d: 3 - Name: Julie Od	wajuma		
Question FOUR.			
a. Describe three va	riable scopes used in PHP		[3 marks]
o. Write an HTML sy	ntax for the web form below		[7 marks]
Name:			
E-mail:			
Gender: © Female) Male		
Submit			

c. Write the validation script for the form to display the form as shown if the form is submitted empty [10 marks]



Question FIVE

a. Define the following PHP terms/Phrases

[6 marks]

- i. Polymorphism
- ii. Data Abstraction.
- iii. Encapsulation
- iv. Constructor
- b. Here is a PHP code extract which defines a class of type Books:

```
<?php
 class Books {
   /* Member variables */
   var $price;
   var $title;
   /* Member functions */
   function setPrice($par){
     $this->price = $par;
   }
      function getPrice(){
     echo $this->price ."<br/>";
   }
   function setTitle($par){
     $this->title = $par;
   }
     function getTitle(){
     echo $this->title ." <br/>";
```

} } ?>

i. Explain five key parts of the code.

5 marks]

ii. Demonstrate how to create three books: maths, physics and chemistry using the **new** operator.

[3 marks]

iii. Show how to set title and prices for the three books by calling member functions. [6 r

[6 marks]