

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
& BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
(BTIT/BSIT)

BIT 2207: INTERNET APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATION **SERIES:** APRIL 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One (Compulsory)

a) Define the following terms:

(12 marks)

- (i) Servlet
- (ii) Applet
- (iii) Common gateway interface
- (iv) Internet application
- (v) Local web server
- (vi) Remote web server
- **b)** Describe the factors that make Flash Video (FLV) files suitable for web videos. State any disadvantages of using FLVs (6 marks)
- c) List **TWO** characteristics of the following:
 - (i) Static web page
 - (ii) Dynamic web page
 - (iii) Server side scripting

	(iv) (v)	Client side scripting Content management system	(10 marks)
d)	List T V	WO characteristics of a server application	(2 marks)
Question Two			
a)	Define	the term web application frame work	(2 marks)
b)	List T	WO popular PHP framework	(2 marks)
c)	Explain	n how a framework helps to alleviate the overhead in web development	(4 marks)
d)	Give FIVE reasons why you should use a Framework in web application development.		
e)	Explain	n the implementation of a web application Framework using Model view con	(5 marks) troller MVC. (5 marks)
Question Three			
a)	List F (DUR application of JavaScript in web development.	(4 marks)
b)	Write the PHP/MYSQL code extracts for doing the following:		
	(i) (ii) (iii) (iv)	Connecting to the server Selecting the database and table Displaying records in a table Deleting a record	(3 marks) (3 marks) (4 marks) (2 marks)
c)	Give T (i) (ii) (iii)	WO advantages of each of the following. Apache HTTP server PHP MYSQL	(6 marks)
Question Four			
a)	followi (i) (ii) (iii)	Analysis Design and development Coding	carry out the
	(iv) (v)	Testing Updating	(10 marks)
b)	Write a JavaScript function that asks the user for his name and displays result.		
c)	Explain (i) (ii) (iii)	n with code examples three types of JavaScript pop up boxes. Alert Prompt Confirm	(6 marks)

Question Five

- a) List FOUR advantages of using CSS over tables
 b) Identify THREE standard graphic formats for the web.
 (3 marks)
- c) Differentiate between CSS ID's classes and divisions.
 d) Show with code examples the importance of the following PHP functions.
 (3 marks)
 (10 marks)
 - Show with code examples the importance of the following FTF function
 - (i) Isset ()
 - (ii) Die ()
 - (iii) Require once () and include ()
 - (iv) Md 5 ()
 - (v) Strip-tags ()