TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN:
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
(BSIT 12S – Y3 S1)

BIT 2207: INTERNET APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
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 (Compulsory)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Define the term Internet Application **(2 marks)**

b) Write HTML code syntax that would generate a 3 column table with a row for a banner and footer.
(7 marks)

c) Create a JavaScript code that calls a function to convert from Fahrenheit to Celsius **(5 marks)**

d) Illustrate with code how PHP loop and array can be used to display the following statements in a descending order. **(5 marks)**
   (i) Mombasa
   (ii) Nairobi
   (iii) Kisumu
   (iv) Nakuru

e) Provide a Javascript that can find the length of this string.

ABCDEFGHIJKLMNOPQRSTUVWXYZ **(4 marks)**

f) Write a CSS code that would produce the CSS BOX model **(7 marks)**

Question Two

a) State FIVE advantages of using Apacle web server over IIS **(5 marks)**

b) What is a CSS pseudo class? Describe the FOUR state of pseudo class **(5 marks)**

c) Briefly explain the importance of AJAX web development. Give TWO applications that are using AJAX **(5 marks)**

d) Explain using a diagram how AJAX works **(5 marks)**

Question Three

a) List TWO popular PHP web Application development frameworks **(4 marks)**

b) State FIVE benefits of using PHP framework for web development **(6 marks)**

c) Explain how PHP frameworks are implemented **(4 marks)**

d) Differentiate between the $-GET method and $ POST method are used with PHP. Give TWO conditions for using $-GET method TWO conditions for using $ POST **(6 marks)**

Question Four

a) Differentiate between client and serve side programs **(4 marks)**

b) Explain how the following functions works:
  (i) The html speciachars ( ) function
  (ii) The trim ( ) functions
  (iii) Stripslashes ( ) function)
  (iv) The preg match ( ) function **(6 marks)**

c) Identify FOUR merits of PHP scripting language **(4 marks)**

d) Explain what you understand by JQUERY and identify FOUR key features of JQUERY library **(6 marks)**

Question Five

a) Explain using PHP-MYSQL script how a user can post and display his personal details into a web application **(10 marks)**

b) Using TWO images, PTC-bulb-on and PTC-bulb-off, create a JavaScript code that lights a bulb and switches it off. **(10 marks)**