TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN
INFORMATION TECHNOLOGY
(BTIT)

EIT 4202: WEB BASED 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 **TWO** printed pages

Question One (Compulsory)

a) Highlight **FOUR** key components of the internet.   **(8 marks)**

b) Explain the transfer of an internet link form the backbone to a user.   **(2 marks)**

c) Identify **THREE** functionalities of HTML.   **(3 marks)**

d) List **FOUR** components of URL   **(4 marks)**

e) Define the following terms   **(5 marks)**
   (i)   DHTML
   (ii)   XML
   (iii)   HTML
   (iv)   AJAX
   (v)   JQUERY

f) Outline **FOUR** application of JavaScript. **(4 marks)**

g) State **FIVE** advantages of using CSS layouts over table layout. **(5 marks)**

Question Two

a) Define the following terms: **(10 marks)**
   (i) Internet Protocol
   (ii) Domain name
   (iii) Doman name server
   (iv) Client-server Architecture
   (v) MIME

b) Explain how an internet application works. **(5 marks)**

c) Differentiate between a servlet and an applet **(5 marks)**

Question Three

a) Describe a web application design according to the following: **(10 marks)**
   (i) Concept
   (ii) Architecture
   (iii) Design
   (iv) Execution
   (v) Testing

b) Describe the process of building a website outline. **(10 marks)**

Question Four

a) Define the purpose, goals and objectives for a company website you have been contracted to build.
   (5 marks)

b) What is the importance of a site map in this project?

c) State what an outline is and show how you will convert it into a site map. **(5 marks)**

d) Convert the following outline into a site map. **(8 marks)**

Question Five

a) Write the html code for the following table layout. **(8 marks)**

b) Differentiate between, organization entered, technology-centered and user-centered web sites.
   (6 marks)

c) Identify with example **THREE** ways of inserting a style sheet. **(3 marks)**

d) List **THREE** standard image formats for the web. **(3 marks)**