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 APPLICATIONS PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: JULY 2014
TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>
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 **THREE** printed pages

Question One (Compulsory)

a) Differentiate between HTML and HTM5   **(2 marks)**

b) Explain the motivation behind using AJAX in web development.   **(3 marks)**

c) List FIVE advantages of using JavaScript   **(5 marks)**

d) Write an HTML code extract that produces the table below.   **(4 marks)**

e) Describe THREE standard JavaScript pop up boxes. Use code **(2 marks)**

f) Write the HTML code extract that outputs the following form. **(5 marks)**

g) Differentiate between the term DHTM, HTML and XML. **(6 marks)**

Question Two

a) List THREE roles played by World Wide Web sortium (W3C) **(4 marks)**

b) Illustrate with a diagram the HTML DOM mode tree according to W3C recommendation.
(5 marks)

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

d) Describe FOUR protocols used by the World Wide Web. **(6 marks)**

Question Three

a) Describe the role of Meta tags in an HTML page. **(2 marks)**

b) Differentiate between a block element and an inline element. Give the examples **(3 marks)**

c) Highlight FIVE improvements of XHTML over HTML. **(5 marks)**

d) Illustrate with HTML extracts the following links **(10 marks)**
   (i) Link to a document called parent. Html on the same server in the parent directory.
   (ii) Link to a document called cat.html on the same serve in the subdirectory stuff
   (iii) Link to an external website
   (iv) Link to an email address
   (v) Link to an image called pict 1 png on the same server in the subdirectory images.

Question Four

a) Explain how an internet application works. **(2 marks)**

b) Define the purpose, goals and objectives for a school website you have contracted to build.
(6 marks)

c) Differentiate between following:
  (i) Cell spacing and cell padding
  (ii) Column span and row span **(6 marks)**

d) Write the HTML code extract that produces the table below. **(6 marks)**

Question Five

a) Identify THREE primary kinds of CSS selectors. **(3 marks)**

b) Describe using an example the following stylesheets terms:
  (i) Selectors
  (ii) Declarations
  (iii) Properties
  (iv) Values **(6marks)**

c) State THREE specifications of numeric values in CSS **(3 marks)**

d) List THREE methods of linking HTML with CSS **(3 marks)**

e) Describe the CSS box model using a diagram. **(5 marks)**