



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: AUGUST 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) Differentiate between the following. **(4 marks)**
HTML and HTML
CSS and CSS3

Identify **FOUR** CSS3 modules **(4 marks)**

- b) Write a JavaScript code that says click me and outputs the message below **(4 marks)**

CLICK ME
THANKS, I FEEL MUCH BETTER
<input type="button" value="OK"/>

- c) What do you understand by the term DHTML?
(2 marks)

- d) List **FOUR** components of a URL (4 marks)
- e) Define the following terms:
(i) XML
(ii) SMTP
(iii) XHTML (3 marks)
- f) Outline **FOUR** applications of JavaScript (4 marks)
- g) Define the document object model (2 marks)
- h) List the **THREE** parts of the W3C DOM standard (3 marks)

Question Two

- a) Describe the following DOM object methods (4 marks)
(i) Get Element By Tagname ()
(ii) Get Element By Class Name ()
- b) Explain the following Technologies (6 marks)
(i) ASAX
(ii) JQuery
(iii) JSON
- c) Define the following terms:
(i) Internet protocol
(ii) Domain name
(iii) Domain name server
(iv) Client server architecture
(v) MIME (10 marks)

Question Three

- a) What is a website outline (2 marks)
- b) Describe the process of building a website outline (8 marks)
- c) Explain the following terms: (10 marks)
(i) Concept
(ii) Architecture
(iii) Design
(iv) Execution
(v) Testing

Question Four

- a) Write the utml code extract for the following table (8 marks)

TECHNICAL UNIVERSITY OF MOMBASA		
<u>Home</u>	<u>About Us</u>	<u>Contact Us</u>

Fig 1

- b) Differentiate between organization centered, technology-centered and user centered website. **(6 marks)**
- c) Identify with examples ways of inserting a style sheet **(3 marks)**
- d) List **THREE** standard image formats for the web **(3 marks)**

Question Five

Write a pure CSS/HTML code needed to render the figure 1 in question 4 **(20 marks)**