



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN
INFORMATION COMMUNICATION TECHNOLOGY

EIT 4202: WEB BASED APPLICATION PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: JULY 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) List **FOUR** factors to consider when designing a user friendly web page interface. (4 marks)
- b) Using examples, describe JavaScript alert boxes. (6 marks)
- c) Explain using an example any **FIVE** form attributes. (5 marks)
- d) List the technologies that make up 'DHTML' (3 marks)
- e) Explain "frameset" and describe its use (2 marks)
- f) Give the syntax used in JavaScript (2 marks)
- g) State the scripting types and give examples (4 marks)
- h) Describe JavaScript object model, giving the format of the objects. (4 marks)

Question Two

- a) Explain differences between:
- (i) Standalone and container tag
 - (ii) Colspan and Rowspan
 - (iii) Cellspacing and cellpadding
- (6 marks)
- b) Explain the use of cascading sheets with an example (6 marks)
- c) Describe **FOUR** tools used for web development (8 marks)

Question Three

- a) Differentiate between the following terms: (8 marks)
- (i) HTTP and the HTML
 - (ii) Web server and web client
 - (iii) Cookie and a session
 - (iv) Dynamic and static web page
- b) State and briefly explain any SIX characteristics of a web programming language you would consider to use to build a web application. (6 marks)
- c) Explain **THREE** areas in which HTML falls short as a tool for web application development. (6 marks)

Question Four

- a) Define hypermedia (1 mark)
- b) Develop a web page:
- (i) That contain an image link to the next page, the image file name is pic.jpeg.
 - (ii) Contain both ink to the bottom page and top page
 - (iii) Contain a link to a social network twitter.com
- (6 marks)
- c) Explain using example the benefit of using JavaScript in a HTML document (4 marks)
- d) Identify **FOUR** locations in an HTML page that JavaScript code can be placed. (4 marks)
- e) Using example explain **THREE** types of lists (6 marks)

Question Five

- a) Define Cascading style sheets (2 marks)
- b) List down the **FOUR** characteristics permitted in style sheets. (2 marks)
- c) Explain the purpose of using external style sheets. (2 marks)
- d) Outline the features of JavaScript (3 marks)
- e) Write a JavaScript program to illustrate variable assignment using **TWO** variables that are assigned numbers and then output their sum. (4 marks)
- f) Write a JavaScript using a while loop to output 10 even numbers starting from number 10. (3 marks)
- g) Explain JavaScript functions, and give the general format of a JavaScript function. (4 marks)