



TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

BACHELOR OF MATHEMATICS AND COMPUTER SCIENCE (BMCS)

EIT 4202, ICS 2203: WEB APPLICATION PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

- a) Explain three ways in which Web applications are revolutionary compared to traditional applications. (3 Marks)
- b) Explain Three different ways that CSS supports the DRY (Don't Repeat Yourself) principle. (3 Marks)
- c) The CSS box model has four parts. State the four parts from the inside to the outside (4 Marks)
- d) Describe a simple attack that could be executed if browsers did not implement the same- Origin Policy. (4 Marks)
- e) Write HTML and JavaScript code that shows and hides a paragraph over all other elements when a button is clicked. (6 Marks)
- f) List two elements that are used to get user inputs. (2 Marks)
- g) Explain the term session hijacking and state how to prevent it (2 marks)

h) Explain three HTML tags used for formatting text when preparing Web pages (6 Marks)

Question TWO

- a) Differentiate between the following terms (8 Marks)
- XHTML and HTML5
 - Web Service and Add ons
 - Cookie and a Pop up Blocker
 - Dynamic and static web page
- b) Write a JavaScript program using a while loop to output 10 even numbers, starting from number 10 downwards to 1. (4Marks)
- c) Explain general format of a JavaScript function by giving example using event mousemove event (4 Marks)
- d) Describe the JavaScript object model, giving examples using event mousemove event (4 marks)

Question THREE

- a) List four font characteristics permitted in style sheets. (4Marks)
- b) Write a JavaScript program to illustrate variable assignment (4 Marks)
- c) State and briefly explain any *six(6)* characteristics of a web programming language you would consider to use to build a web application (6 Marks)
- d) Explain Three areas in which HTML falls short as a tool for web application development (6 Marks)

Question FOUR

- a) Explain differences between (6 Marks)
- Cellspacing and cellpadding
 - Strike and underline tags
 - Emp and strong tags
- b) Explain the advantages of using cascading sheets with an example (6 marks)
- c) Describe four tools used for web development (8 Marks)

Question FIVE

- a) List four factors to consider when designing a user friendly web page interface (4Marks)
- b) Using examples describe Java script 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)