



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

P.O. Box 62157
00200 Nairobi - KENYA
Telephone: 891601-6
Fax: 254-20-891084
E-mail: academics@cuea.edu

AUGUST – DECEMBER 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

CMT 108: INTRODUCTION TO WEB DESIGN AND DEVELOPMENT

Date: DECEMBER 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) i) What is a closure in Javascript? **(2 Marks)**
- ii) How are object properties assigned in Javascript? Give example **(2 Marks)**
- iii) Differentiate between HTML tags vs. elements vs. attributes? **(2 Marks)**
- b) i) What does the four-part addressing scheme of Uniform Resource Locators tells the Web browser? **(4 Marks)**
- ii) Which HTML attribute is used to define inline styles?. Use an example of your choice to show its usage **(2 Marks)**
- iii) What is the difference between inline and block elements? **(3 Marks)**
- c) i) What is the difference between a <div> and a <frame>? **(2 Marks)**
- ii) How are active links different from normal links? **(2 marks)**
- iii) What is a CSS file? What are the three ways of adding CSS style sheets to the web layout? **(4 Marks)**
- d) i) How can you align a table to the right or left? **(2 Marks)**

ii) Describe how an image can be linked to another page in HTML?
Give an example **(3 Marks)**

iii) Add the appropriate tags in the paragraph below **(2 Marks)**

This is how we make a word appear *italic*.

It's a potato *Solanum teberosum*.

Captain Cook sailed to Australia on the *Endeavour*.

Q2. a) What are the possible ways in which CSS styles can be applied in a web page? **(6 Marks)**

b) Write an HTML code to render the following output on a web browser **(5 Marks)**

Name	Maths	Science	English	Physics	General Knowledge
David	85	87	88	92	88
Richard	91	81	78	71	74
John	81	86	88	84	92
Tony	84	86	87	82	81
Scott	71	79	82	88	89

c) Given the below HTML output, generate the correct html codes (5 marks)

First name:

Micheal

Last name:

Lawrance

Submit

d) From the html page below generate the output **(4 Marks)**

- [Home](#)
- [About](#)
- [Movies](#)
- [Contact](#)

- Q3. a) Given the output , write the appropriate HTML code to render the table on a web browser **(6 Marks)**

	Withdrawn	Credit	Balance
January	250.00	660.50	410.50
February	135.55	895.20	1170.15

- b) Explain four rules to be followed when writing an xml document **(4 Marks)**
- c) Explain the difference between the alt attribute and the title attribute? **(4Marks)**
- d) Based on the output below, write appropriate HTML codes to render the form. **(6Marks)**

Male Female

- Q4. a) Write an HTML code to render a drop down list with name="cars". Include the following options: "volvo", "ford", "fiat", and "audi" . **(6Marks)**

Volvo ▼ Submit

- b) Explain the three Web Design Tools **(4 Marks)**
- c) Write the appropriate code to render the following on the web browser **(6 Marks)**

Coffee
- black hot drink
Milk
- white cold drink

- d) Describe four ways that can be used in! DOCTYPE Declaration in HTML? **(4 Marks)**
- Q5. a) How are active links different from normal links? **(5 Marks)**
- b) Explain the two different way in which website layout can be done **(4 Marks)**

- c) Generate the html code for the output below adding a horizontal rule between the heading and the paragraph. **(6 Marks)**

London

London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.

- d) Mark up the following text with appropriate tags: **(5 Marks)**

Universal Studios Presents

Jurassic Park

About

On the Island of Isla Nublar, a new park has been built: Jurassic Park is a theme park of cloned dinosaurs!!

END