



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

MAY – JULY 2019 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

CMT 108: INTRODUCTION WEB DESIGN AND DEVELOPMENT

Date: JULY 2019

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) i) What are **HTML Tags** and how are they written? **(3 marks)**
- ii) What is the difference between **HTML elements** and **tags**?
(2 marks)
- iii) Distinguish between **an attribute** and **an element** in web designing.
(2marks)
- b) i) How can a table be aligned to the **right** or **left**? **(2 marks)**
- ii) Describe **FOUR** ways that can be used in HTML ! DOCTYPE Declaration
(4 marks)
- iii) Given the below HTML output, generate the correct html code for it
(3 marks)

First name:

Last name:

Note that the form itself is not visible.

- c) i) Explain **TWO** reasons as to why it's important to include **alternative attribute** in web development. **(2 marks)**
- ii) Add the appropriate tags in the paragraph below **(2 marks)**

The **HEAD** of an *HTML document* is where information such as the **document's title**, can be placed.

There are several elements that can be referenced in the *HEAD of a document* but we will concentrate on the **document's title**.

- iii) Create HTML form, containing an <input> element with type="**button**", and value="**SUBMIT**"? **(2 marks)**
- d) i) Based on the table output below generate the correct HTML Code for it. **(3 marks)**

	Saturday	Sunday
Tickets sold:	140 100 150	200 250 300
Total sales:	\$390	\$750

- ii) What is the use of **Hidden form controls**? **(2 marks)**
- iii) Write an HTML table tag sequence for the following outputs: **(3 marks)**

505pcs 100 500
100 pcs 5 500.

- Q2. a) Describe the **FIVE** basic Web Design Tools (5 marks)
- b) Write appropriate HTML code to generate the form attribute below (6 marks)

The disabled Attribute

The disabled attribute specifies that the input field is disabled:

First name:

Fred

Last name:

- c) What is the difference between **inline** and **block elements**? (5 marks)
- d) What is the difference between a **<div>** and a **<frame>**? (4 marks)
- Q3. a) What are the **THREE** possible ways to apply **CSS styles** to a web page? (6 marks)
- b) Generate the html code for the output below adding a **horizontal rule** between each of the heading and the paragraph. (5 marks)

Structural markup: The elements that you can use to describe both headings and paragraphs.

Semantic markup: which provides extra information; such as where emphasis is placed in a sentence, that something you have written is a quotation (and who said it), the meaning of acronyms.

- c) Mark up the following text with appropriate tags: (5 marks)

Introduction

Background

Summary

Pages come at the end of each chapter. They remind you of the key topics that were covered in each chapter.

d) Write the correct HTML code for the output below. **(4 marks)**

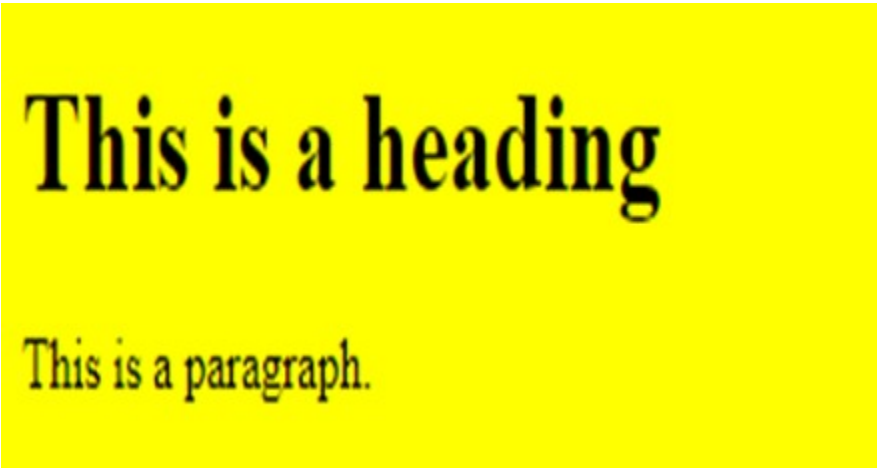
- Male
- Female
- Other

Q4. a) Write Html Code for the below output **(4 marks)**

```
The cat was playing in the
garden.
```

Submit

- b) Explain **TWO** different ways in which website layout can be made **(4 marks)**
- c) Add the style **attribute** and **background color** to **yellow** in the below html code **(4 marks)**



- d) Given the lists below, write html codes for **ordered html lists**, **unordered html lists**, **Description html list** and **Nested html lists** below **(8 marks)**

An Ordered HTML List

Mix dry ingredients thoroughly.
Pour in wet ingredients.
Mix for 10 minutes.
Bake for one hour at 300 degrees.

An Unordered HTML List

Client/server protocols
Web site design
Server-side scripting
Client-side scripting
Mixed-mode scripting

Definition HTML List

Lower cost

The new version of this product costs significantly less than the previous one

Easier to use

We've changed the product so that it's much easier to use!

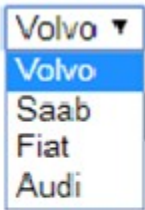
Safe for kids

You can leave your kids alone in a room with his product and they won't get hurt.

Nested HTML List

Mousses
Pastries
Croissant
 Mille-feuille
 Palmier
 Profiterole
Tarts

- Q5. a) Add **h1** to **h6** to the html code with the text "**HTML Character Entities**". Start with the most important heading and end with the least important heading. **(6 marks)**
- b) Describe how an image can be linked to another page in HTML. Give an example **(4 marks)**
- c) Having the form below write down the html code for it **(6 marks)**



- d) Define **Frames**, **iframes** and how they are used when designing websites.
(4 marks)

END