



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

GABA CAMPUS - ELDORET

MAIN EXAMINATION

JANUARY – APRIL 2023

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

CMT 108: INTRODUCTION TO WEB DESIGNING

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DATE: APRIL 2023	Duration: 2 Hours
INSTRUCTIONS: Answer Question ONE and any other TWO Questions	

Q1.

- i) What is an internet? (1 Mark)
- ii) Explain at least three characteristics of the internet. (3 Marks)
- iii) Explain at least three emerging trends in internet technology (6 Marks)
- iv) Name any five web browsers and five search engines (5 Marks)
- v) Discuss the objectives and purpose of responsive web design. (8 Marks)
- vi) Write the HTML code using Div, that creates a form as given below. Write data annotation that validates the input provided by the user. (7 Marks)

1. Post applied for _____ <i>(mention only one position)</i>	
2. Department _____ <i>(mention department, if required)</i>	
3. Campus: Lahore <input type="checkbox"/> Attock <input type="checkbox"/> <i>(Please tick (✓) only one choice)</i>	

4. Name in full _____ <i>(Use CAPITAL LETTERS)</i>	
5. Father Name _____ <i>(Use CAPITAL LETTERS)</i>	DD MM YY
6. N.I.C. #. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	7. Date of Birth ____/____/____
8. E-Mail: _____ <i>(Mandatory, most of the future correspondence will be done using email address)</i>	9. Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female
10. Correspondence Postal Address: _____	
11. Telephone No. (Off) _____ (Res) _____ City: _____ <i>(CityCode PhoneNo.)</i> Mobile _____	

Q2.

- i) Differentiate between a web browser and web server **(4 Marks)**
- ii) What is an email? list its advantages over paper mail **(4 Marks)**
- iii) Write an html document with an image as the background. **(4 Marks)**
- iv) Describe any four text formatting html tags **(2 Marks)**
- v) Discuss HTML elements with the help of example. **(6 Marks)**

Q3.

- i) How is the internet different from intranet? **(4 Marks)**
- ii) Write short notes on Domain Name. **(4 Marks)**
- iii) Differentiate between WWW and internet. **(4 Marks)**
- iv) Write CSS code to create a drop down menu in CSS. **(6 Marks)**
- v) Why is html termed as a Mark-up language? Explain. **(2 Marks)**

Q4.

- i) Explain the difference between http and https **(4 Marks)**
- ii) Describe the structure of html document **(4 Marks)**
- iii) State and explain the types of lists in html with examples. **(5 Marks)**
- iv) What is an empty tag? List any two. **(3 Marks)**
- v) State and explain email services. **(4 Marks)**

Q5.

- i) Write a JavaScript code to find factorial of a number. **(6 Marks)**
- ii) Design a user-friendly web page by using inline CSS. **(8 Marks)**
- iii) Write Html code for the following. **(6 Marks)**

**Energy Expenditures for Each Region
(millions of dollars)**

		Type	
		Residential Customers	Business Customers
		Expenditures	Expenditures
		Sum	Sum
Region	Division		
Northeast	New England	\$7,477	\$5,129
	Middle Atlantic	\$19,379	\$15,078
West	Mountain	\$5,476	\$4,729
	Pacific	\$13,959	\$12,619

END