

## THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MAIN EXAMINATION** 

GABA CAMPUS - ELDORET

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JANUARY – APRIL 2023

## FACULTY OF SCIENCE

## DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE BACHELOR OF SCIENCE IN COMPUTER SCIENCE **CMT 307 .NET PROGRAMMING**

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

**Q1.** 

a) Define the following terms;

(4 Marks)

- i) .Net
- ii) .Net Framework
- iii) Variable
- iv) Object
- b) Explain components of .Net Framework

(6 Marks)

c) Giving example for each differentiate between global variable and local variable

d) Discuss the procedure of connecting Visual basic. Net form to a database

(7 Marks)

e) Write a program in VB.Net using IF---ELSEIF---ELSE statement to display grades as follows; (7 Marks)

75 and above	A
55-74	В
45-55	С
31-44	D
30 and below	Е

<b>Q2.</b>		
a)	List controls in Visual Basic.Net	(5 Marks)
b)	Explain architecture of .Net Framework in VB.Net	(8 Marks)
c)	Write a program to display student's Marks for CAT1 and CAT2, use the operators in	
	your program to calculate the following;	(7 Marks)
	i) Total value for two CATs	
	ii) Average for two CATs	
	iii) Multiply CAT1 by CAT2	
Q3.		
a)	Write syntax for declaring a variable and explain each part	(6 Marks)
b)	b) Write a program to display a message "Welcome to CUEA- Gaba campus" when you	
	click a command button and also displays your name in a textbox	(6 Marks)
c)	Write a program using switch case in Visual Basic.Net	(8 Marks)
Q4.		
a)	Outline events you can use in Visual Basic.Net	(5 Marks)
b)	b) Write a program using controls to display student's information when you load a form as	
	follows;	(8 Marks)
	i) First Name- Bob	
	ii) Surname- Zawadi	
	iii) Admission Number- 1020203	
	iv) Telephone Number- 0110999999	
c)	Write a syntax for displaying properties in a form and write a prog three properties in a control	ram to change any (7 Marks)
Q5.		
a)	List any five data types you can use in Visual Basic.Net	(5 Marks)
b)	Write a program to calculate circumference of a circle given pi = 3.14 as constant value	
	and diameter be a value of your choice	(6 Marks)
c)	Write a VB.Net program using DoWhile loop	(5 Marks)
d)	List rules you can follow when naming variables	(4 Marks)
	*END*	