<u>CIT 0104</u>



## (AUGUST-DECEMBER, 2023) CIT 0104: INTRODUCTION TO PROGRAMMING & ALGORITHMS

## STREAM: Y1 S1 TIME: 2 HOURS DAY: TUESDAY 3.00 - 5.00 PM DATE: 28/11/23 INSTRUCTIONS DATE: 28/11/23

- 1. Do not write anything on this question paper.
- 2. Answer Question ONE [Compulsory] and any other TWO Questions

## Question 1 (COMPULSORY)

a.	Define the term flowchart?	2mks
b.	Distinguish between high level and low level programming?	2mks
с.	State three examples of high level programming languages?	3mks
d.	What is an algorithm?	3mks
e.	List three types of algorithms and briefly explain?	6mks
f.	Distinguish between a flowchart and a pseudo code?	4mks
g.	Differentiate between source code and object code?	4mks
h.	State 3 types of control structures	6mks
Quest	cion 2	
a.	What is a pseudo code?	2mks
b	State three guidelines of writing pseudo codes	6mks
c.	Write a pseudo code for a program to find the sum of two ne	umbers
	and display the result.	12mks
Quest	cion 3	
a.	Explain the following term as used in programming?	
	i. Interpreters	4mks
ii. Assemblers		4mks
i	ii. Compilers	4mks

	b.	Differentiate between compilers and interpreters?	8mks	
Question 4				
	a.	What is a program error?	3mks	
	b.	State and briefly describe three types of errors?	9mks	
	c.	How are errors avoided in programming?	3mks	
	d.	Define the term machine language?	2mks	
	e.	What are three modes of error detection?	3mks	
Question 5				
	a.	Why is machine language considered faster in processing	3mks	
	b.	Define the term flowchart?	3mks	
	c.	List two importance of flowchart?	4mks	
	d.	Draw a flowchart to award medals to athletes based on the	following	
		criteria		
		1 <sup>st</sup> Position - Gold		
		2 <sup>nd</sup> Position - Silver		
		3 <sup>rd</sup> Position - Bronze	10mks	