

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

TVET EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN INFORMATION TECHNOLOGY

IT-OS-ICR-10-6-DEVELOP COMPUTER PROGRAM

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer question one and any other two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

a. Differentiate the following as used in computer programming.

QUESTION ONE (30 MARKS)

	1.	Reserved word and identifier		
	ii.	Data type operator		
	iii.	Print and scan		
b. With an example describe c language as a tree format and portable pro			gramming language.	
			(2 marks)	
c.	Write a program that prompt for the input of two integer value determine if they are both			
	even and	if they are the programme output		
	"THE N	JMBER ARE EVEN".	(4 marks)	
d.	Suppose	a, b, c are valuables that have been assigned the value $a =$	= 2, b = 4 and c = -6	
	determin	e the value of each of the following expressions		
	i.	2*b + 3*(a-c).	(2 marks)	
	ii.	(A*c) %b.	(2 marks)	
e.	Identify f	four benefit of flow charts in computer programming.	(4 marks)	
f.	State the	stages used to develop c programme.	(4 marks)	
g.	Outline the	hree characteristics of a good programming language.	(3 marks)	
h.	Describe	two data types in c programming.	(3 marks)	
SE	ECTION I	B – ANSWER ANY TWO QUESTIONS IN THIS SECTION	ON	
QI	UESTION	TWO (20 MARKS)		
a.	Explain v	what valuable are given an example.	(3 marks)	
b.	Using fu	nctions write ac program to input two number as argument	and return the value of	

(6 marks)

(6 marks)

(6

QUESTION THREE (20 MARKS)

when the number of handsets sold is keyed in.

their value of their sum.

a. Explain a token Give an example in each. (4 marks)

c. A sales person for mobile handset selling company arms a basic salary 20,000a commission of 2% for total sales for the months and bonus of 300 for every handset sold during the month. Write a programme to calculate the gross salary for a worker at the end of the month

- b. Using any loop structure write a programme that prints out the number below. (8 marks)
 - 10

marks)

- 15
- 20
- 25
- 30

The table below shows some of the counties in Kenya and their governor use it to answer the following questions

County No	County Name	Governor
01	Mombasa	Abdnasis
12	Meru	Mwangaza
47	Nairobi	Sakanja
	Machakos	Wavinya

Write ac program to accept the country number and governor based on the number entered.

(8 marks)

QUESTION FOUR (20 MARKS)

a. List any five library functions stating clearly the header files in which they are found.

(8 marks)

b. What is an array? declare a two-dimension array called student.

(6 marks)

c. Identify syntax error in the following program after correction what output would you expect when you execute it. (6 marks)

#define pi3.14159

Mainc)

IntR,C

Float area

C=p1

R=s

Perimeter=20*c*R

AREA=C#R#R

Print {"%d" & perimeter \$ area.

}. (6 marks)