

(Knowledge for Development)

KIBABII UNIVERSITY (KIBU)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR SPECIAL/SUPPLEMENTARY EXAMINATION SECOND YEAR FIRST SEMESTER EXAMINATION

FOR THE DIPLOMA IN (INFORMATION TECHNOLOGY)

COURSE CODE:

DIT 066

COURSE TITLE:

PROCEDURAL PROGRAMMING

DATE: 18/07/2022

TIME: 8.00 A.M. - 10.00 A.M.

2HRS

INSTRUCTIONS TO CANDIDATES:
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

Paper Consists of 3 Printed Pages. Please Turn Over

QUESTION ONE (COMPULSORY) [24 MARKS]

	QUESTION ONE (CONT.)	
a)	Define the following terms as used programming	
i.	Object oriented programming	2mks)
ii.		2mks)
		4 1 1
b)	Give any four applications of C++ programming language	(4mks)
c)	Differentiate between a compiler and an interpreter	(3mks)
d)	Below is a sippet of a c plus programming language. State the results of line 1,2,3.	
		(4mks)
	main() {	
	int $x = 21$;	
	int y;	
	c = x++;	
	cout << "Line 1 << y << endl;	
	cout << "Line 2:" << x << endl;	
	c = ++x;	
	cout << "Line 3:" << y << endl;	
	return 0;	
	}	
e)		(3mks)
f)	Write a C ++program that calculates the volume of a sphere using a function.	(6mks)
QUESTION TWO [18 MARKS]		
a	Give two reasons why arrays are useful in programming	(4mks)
b	Write a C++ program using a for loop to count from 1 to 100.	(6mks)
c	e) Write a C++ program using a function to calculate surface area of a cylinder.	(8mks)
QUESTION THREE [18 MARKS]		
2	a) Outline four differences between a procedural programming and object oriented	
	programming.	(4mks)
1	b) Differentiate between call by value and call by reference.	(4mks)

c) Write a C ++ program that calculates the volume of a cuboid using a function.

(10mks)

QUESTION FOUR [18 MARKS]

- a) Using a example show two ways in which use comments in C++ (4mks)
- b) Write a C++ program using a while loop to count from 1 to 20. (6mks)
- c) Write a C++ program using a function to calculate area and circumference of a circle.

(8mks)

QUESTION FIVE [18 MARKS]

- a) Write a C++ statement that declares that a program will be accessing entities whose names are part of the namespace. (2mks)
- b) Using a diagram differentiate between a while loop and a do...while loop (3mks)
- c) Outline any four features of procedural programming language (4mks)
- d) Differentiate between formal and actual parameters. (4mks)
- e) Write a C++ program that calculates the area of a triangle (5mks)