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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN BUILDING CONSTRUCTION

COURSE CODE: BTB 454

COURSE TITLE: COMPUTER APPLICATIONS IN BUILDING CONSTRUCTION

DATE: 5TH OCTOBER 2022 **TIME:** 12 – 2 P. M

INSTRUCTIONS:

- 1. This paper contains FOUR questions
- 2. Question ONE (1) is Compulsory
- 3. Attempt a total of THREE questions in this booklet.
- 4. Marks for each question are indicated in the parenthesis.

Examination duration is 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

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53) % .

ON II

Question 1	COMPULSORY	(20 marks)
A). Differentiate between hardware a	and software giving examples to so	oftwares usefull to
building construction field		(6 mks)
B) What is mean by the term "progra	am" define and give examples in b	uiding construction
		(4mks)
c). Differentiate the following; Utility	program, operating system softwa	
software with examples		(10 mks)
Question 2		(20 marks)
A). Differentiate between a <u>class</u> and	l a <u>function</u> in python programmin	
645		(6 mks)
B). The command line is useful for ru	unning different types of utility pro	grams or instructions
to the computer.	dir > list.txt	
(a) 1	dir > list.txt	
Differentiate the	and	(4mks).
following commands	dia	(111113).
	dir >> list.txt	
What would be the	type list.txt more	
b) ii) effect of the following	and	(4marks).
commands	type list.txt	
iii) What are 'key-words' in prog	gramming, give 6 examples	(6marks).
Question 3		(20 marks)
Programming methodology		
a) What are the steps to solving a	problem using programming	(10 mks)
b) Illustrate the steps in 3(a) about	ove with an example of 'multip	lying two numbers'
		(10 mks
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Question 4		(20 marks)
a) What do you understand by the to	erm algorithm?	(3mks)
b) What do you understand by the to	erm flow Chart	(2mks)
c) what do the following symbols me	ean in 'flow charts"	(5 mks)
12		
S. mala al		7
Symbol		

d) Prepare and algorithm and a flow chart for a programming solution to calculate the monetary value of properties under construction by a county government if you are given a database of all constructions in the country. (10 mks)