



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

END OF SEMESTER EXAMINATION YEAR ONE SEMESTER ONE EXAMINATION

FOR THE DEGREE OF (INFORMATION TECHNOLOGY)

COURSE CODE

: BIT 112

COURSE TITLE

INFORMATION TECHNOLOGY

FUNDAMENTALS

DATE: 22/12/2022

TIME: 2.00 P.M - 4.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (30 MARKS) [COMPULSORY

		QUESTION ONE (50 MARKS) (50 MARKS)	
a.	Define	the following terms:	[4 marks]
	i.	Information	
	ii.	Nibble	
	iii.	Program	
	iv.	Operating system	
b.		in why a computer is termed as a data processor.	[2 marks]
c.		in the essence of having cache memory despite its small size.	[2 marks]
		ribe the term computer system.	[4 marks]
a			[3 marks]
e.	Deter	mine the decimal equivalent of the hexadecimal number (1E0.2A)16	
f.	Desc	ribe the attributes of a system.	[3 marks]
	G	the functions of the main memory.	[3 marks]
	70	ribe the parameters for measuring operating systems performance.	[3 marks]
ŀ	. Desc	bribe the parameters for measuring operating	[C a wlze]
i	. Cont	rast between intranet and extranet.	[6 marks]

QUESTION TWO (20 MARKS)

- a. Explain why an INTEL processor can-not function on a machine initially operating using an AMD processor. [2 marks]
- b. Contrast between overflow and truncating computer errors. [2 marks]
- c. Differentiate between special purpose registers and general purpose registers. [2 marks]
- d. Outline FOUR reasons for shifting from manual to Electronic Data Processing.

[4 marks]

e. Outline FOUR attributes of good information

[4 marks]

f. The computer system uses a unique system to perform arithmetic operations. From the first principles, explain how a computer will perform the arithmetic operation on (+37 – 18)₁₀
[6 marks]

QUESTION THREE (20 MARKS)

a. Briefly describe the different types of ROM.

[5 marks]

b. With the aid of examples, discuss the THREE main methods of data processing.

[6 marks]

c. Discuss the THREE main types of processor architecture, stating their attributes and application.
[9 marks]

QUESTION FOUR (20 MARKS)

Computer technology has advanced over several decades in terms of hardware technologies, software technologies and characteristic features. Discuss these advancements. [20 marks]

QUESTION FIVE (20 MARKS)

With the aid of a diagram, discuss the basic computer organization parts and the different operations performed by each part. [20 marks]