



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

SPECIAL /SUPPLEMENTARY EXAMINATIONS YEAR ONE SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE COMPUTER SCIENCE

COURSE CODE

CSC 114

COURSE TITLE

INTRODUCTION TO COMPUTING

ESSSENTIALS I

DATE: 28/09/2021

TIME:

11:00 A.M - 01:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

Differentiate the	following termino	ologies as used in compu	ting	
(i) Data and Information				[2 marks]
(ii) Bit and Byte				[2 marks]
(iii) Hard copy and Soft copy			[2 marks]	
Indicate the app	roximate time and	d technology used to des	sign the processor for each	of the follow [4 marks]
computer genera	ition.			
Generation	on	Approximate Time	Technology	
Third				
First				
Fourth	1 2		3	
Second				
	plain the classification		on the principle of function [7 mar	
Today informa	tion comes in diffe	erent forms despite the fa	act that the computer system data representation accepte	
the language o	f 0s and 1s. Outlir	ie any Four (4) forms of		
system.			[2 marks]	
Identify any T	nree utility progra	ms that are preinstalled	in most operating systems.	[3 marks]
			networks clearly identifyi	ng the applic
		abii University College.		[4 marks]
Convert the fo	llowing numbers	as indicated:		
	.6875 ₁₀ to Binary			[2 marks]
	1.6875 ₁₀ to Hexa			[2 marks]
ii. 4	1.00/510 to Hexa			

QUESTION TWO [20 MARKS]

a) Distinguish between the following terms.	
i. Hardware and Software	[2 marks]
ii. Desktop Operating System and Network Operating System	[2 marks]
iii. RAM and ROM	[2 marks]
b) State and explain THREE types of buses used in a computer system.	[3 marks]
c) Outline three functions of the central processing unit (CPU).	[3 marks]
d) The Scanner is an optical device that can input any graphical matter and d	isplay it back. State any
Two optical scanner devices.	[2 marks]
e) State any Three Variation of ROM.	[3 marks]
f) State any three types of secondary storage media.	[3 marks]
QUESTION THREE [20 MARKS]	
a) What is multitasking as used in operating systems platforms?	[2 marks]
b) Distinguish between system software and application software	[4 marks]
c) Operating system is the most important program for computer systems. I	Discuss any Five functions of
the operating system in a computing environment.	[10 marks]
d) Outline Four types of operating systems commonly used today.	[2 marks]
e) State Four example of programming languages.	[2 marks]
QUESTION FOUR [20 MARKS]	
a) Distinguish between the following network terminologies	
i. Computer network and Internet	[2 marks]
ii. Intranet and extranet	[2 marks]
iii. Internet and World Wide Web	[2 marks]
b) Discuss any Four advantages of computer networks in Kibabii Universi	ty College finance
department.	[8 marks]

e) A network topology is the layout of the interconnections of the nodes in a computer network. Discuss any Two network topologies clearly identifying the advantages and disadvantages of each.

[6 marks]

QUESTION FIVE [20 MARKS]

a) What is a computer virus? [2 marks]
b) Explain four ways of protecting the computers from viruses. [4 marks]
c) Discuss Five application areas of computers. [10 marks]
d) State Three internet service providers in Kenya today. [4 marks]