

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE WITH INFORMATION TECHNOLOGY

HOMABAY CAMPUS

UCI 101: FOUNDATION OF INFORMATION TECHNOLOGY

Date: 22nd April, 2016

Time: 800 - 10,00am

INSTRUCTIONS:

Answer ALL Questions in Section A and any other TWO Ouestions in Section B.



(a)	Define the term Information Technology. State and briefly explain the four				
Chi	phas	es this field has undergone.	(5marks)		
(b)	Carry out the following calculations: (i) Convert (129) ₁₀ to base 2 equivalent (2 marks)				
	(1) C	(2 marks)			
	(ii) V	(3 marks)			
(c)	Even!	Write the product of 30 and 12 as a binary number, ain the various methods of collecting data.	(3 marks)		
	CXPI	(5 marks)			
(d)	Explain the meaning of following terms as used in the memory devices of a computer system.				
	(i)	Non-Volatility-			
	(ii)	SRAM-			
	(iii)	DRAM-	(6marks)		

(3 marks)

SECTION B: ATTEMPT ANY TWO QUESTIONS (20 MARKS EACH) QUESTION 2

Describe the first electronic computer.

(f)

(a)	1945	The first electronic digital computers were developed between 1940 and 1945. Thereafter computers started being studied in groups called generations. Expl the characteristics the following generations of computers.			
	(i)	Second Generation	(5 marks)		
	(ii)	Fifth Generation	(5 marks)		
(b)	r	Discuss how computers are classified based on	the data manipulated.(10marks		
QUESTI	ON 3				
(a)					
(b)	Write	Write short notes about the following personalities.			
	(i)	Charles Babbage			
	(iii)	Claud Shannon	(10marks)		
QUESTI	ON 4				
(a)	State and	explain any FIVE disadvantages of a compute	er system		
		(10ma)			
(b)	Discu	Discuss the characteristics secondary memory of a computer system			
	(10m	arks)	7,1111		
QUESTI	ON 5				
(a)		What is a programming language? Discuss any THREE characteristics of			
3.836	(i)	Machine languages	The contract of the contract o		
	(ii)	Fourth Generation Languages (4GLs).	(10marks)		
(b)	Your lo	Your local school's principal wants to buy a computer package for electronic Word Processing. Explain to him how the school is bound to benefit by using the package.			
	Process				