

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS, BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE WITH INFORMATION TECHNOLOGY

HOMA-BAY CAMPUS

UCI 101: FOUNDATIONS OF INFORMATION TECHNOLOGY

Date: 10th December, 2015

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

- Answer question ONE (Compulsory) and any other TWO questions.
- Question ONE carries 30 marks. Other questions carry 20 marks.

	SECT	SECTION A : COMPULSORY QUESTION (30 MARKS)		
	1(a)	Define the following terms		
	100	(i) Information Technology	(1mark)	
		(ii) Coding	(1mark)	
		(iii) Byte	(1mark)	
	(a)	Briefly define the term Data Processing and write the	Five steps involved	
	(a)	in Data Processing.	(5marks)	
	(b)	Explain the following terms as used in the memory management of a		
	(0)	computer system .		
		(i) SRAM	(2marks)	
		(ii) High Speed Memory	(2marks)	
		(iv) Capacity	(2marks)	
	7015	Indentify and briefly explain the FOUR functions of a	n Operating System.	
	(d)	indentity and briefly explain the roote sales	(8marks)	
	6.3	Name the personality associated with the following in		
	(e)	Modern computer.		
		(i) First Programmer	(2marks)	
		(ii) Stored Program Concept	(2marks)	
	46	Differentiate between the following.		
	(f)	Differentiate between the following.	(2marks)	
		(i) Arithmetic processing	(2marks)	
		(ii) Logical processing	(Zimirio)	
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	2 (a)	The first electronic digital computers were developed between 1940 and		
		1945. Thereafter computers started being studied in gr	oups called generations	
		Explain the characteristics of the following generation	ns of computers.	
		(i) Second Generation	(5marks)	
		(ii) Fifth Generation	(5marks)	
	(b)	(i) State the TWO methods of Data Processing ar	d with examples explai	
		the underlying differences between them.	(10marks)	
	3 (a)	Discuss the main differences between the User Interfa-	ices of an operating	
		system	(10marks)	
	(b)	Write short notes about the following personalities.		
	12.55	(i) Charles Babbage		
		(ii) Herman Hollerith	(10marks)	
	4 (a)	State and explain any FIVE disadvantages of a compu	iter system	
			(10marks)	
	(b)	What is the full meaning of the abbreviations C. P.U	of a computer system.	
	(0)	Discuss the characteristics of this device.	(10marks)	
	5 (a)	Discuss how the programming languages have evolve	ed with time.	
	J (a)	Parkers in the bare bare bare and the same a	(10marks)	
	(c)	Your local school's principal wants to buy a compute	r package for	
	(c)	electronic Databases. Explain to him how the school	is bound to benefit by	
		using the package .	(10marks)	
		using the passage .		