



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE DIPLOMA IN CIVIL ENGINEERING DIPLOMA IN BUILDING & CIVIL ENGINEERING DIPLOMA IN CIVIL ENGINEERING & CAD

EIT 2101: INTRODUCTION TO COMPUTER SCIENCE

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer booklet
- Mathematical tables/Calculator

This paper consists of **FIVE** questions Answer question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question 1

a)	Brie	fly describe the following hardware			
	(i) (ii) (iii) (iv) (v)	Motherboard CPU Hard disk Floppy disk drive Graphic card	(20 marks)		
b)) Convert the following numbers into the respective bases				
	(i) (ii) (iii)	2418 to base 2 2150 to base 4 6130 to base 8	(9 marks)		
c) Define word processor					
SECTION B (Answer any TWO questions from this section)					
Question 2					
a)	(i)	State the difference between a BIT and a BYTE	(2 marks)		
	(ii)	Briefly explain FOUR ways to safeguard safety of computers	(8 marks)		
b)	Brie	fly explain the need of studying computer architecture	(10 marks)		

Question 3

a) (i) Briefly explain the functions of a control unit	(5 marks)			
(ii) Briefly describe classification of computers according to siz	ze (8 marks)			
b) (i) Define a computer virus	(2 marks)			
(ii) State FIVE causes of virus attack on computers	(5 marks)			
Question 4				
a) Briefly explain operations of an arithmetic and logic unit				

b)	(i) State FOUR characteristics of a computer virus	(2 marks)			
	(ii) Briefly explain THREE objectives of an operating system	(9 marks)			
Question 5					
a)	(i) State FOUR characteristics of RAM and ROM	(4 marks)			
	(ii) Briefly explain FOUR features of main storage of a computer	(4 marks)			
b)	(i) State SIX possible causes of data loss in a computer	(3 marks)			
	(ii) Briefly explain FOUR uses of a computer in the construction industry	(6 marks			
i	(iii) Briefly explain THREE ways to check computer virus	(3 marks)			
J					