



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

## (A Constituent College of JKUAT)

## Faculty of Engineering & Technology

#### **DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

CERTIFICATE IN INFORMATION TECHNOLOGY – CIT 2K 11M

#### EIT 1133: ELEMENTARY PROGRAMMING PRINCIPLES

#### END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates: You should have the following for this examination - Answer Booklet This paper consist of FIVE questions in TWO sections A & B Answer question ONE (COMPULSORY) and any other TWO questions Maximum marks for each part of a question are as shown This paper consists of TWO printed pages

### SECTION A (COMPULSORY)

#### **Question one 30 marks**

a) Explain the following terms

	(i) (ii) (iii) (iv)	Computer Program Pseudocode Flowchart Computer programming language	(8 marks)
b) Draw a flowchart to calculate area and perimeter of a rectangle given the followir			owing:-
	Area=w	idth * length	
	Perimet	er=2(width+length)	(10 marks)
c)	Explain ar	y <b>SIX</b> data types in Visual Basic Programming language	(12 marks)
<u>SE</u>	CTION B	(ANSWER ANY TWO QUESTIONS)	
Qu	lestion two	<u>15 marks</u>	
Explain the <b>five</b> categories of programming languages.			(15 marks)
Qu	lestion thre	ee 15 marks	
a) 2	Explain the	following terms	
	(ii) In (iii) Tr	ompiler terpreter ranslator ource code	(8 marks)
	(17) 5		(U marks)
b) Write a program pseudo code to read three integer values and calculate sum and average.			nd average.
			(7 marks)
<u>Qı</u>	<u>iestion fou</u>	<u>r 15 marks</u>	
a)	Explain th	e following high level languages	
	(i) (ii) (iii)	Basic Cobol Fortran	(6 marks)
b)	Write a V	sual Basic (VB) program to calculate the area of a rectangle.	(9 marks)
<u>Qu</u>	lestion five	<u>15 marks</u>	
a)	Explain ar	y <b>five</b> arithmetic operators	(5 marks)
b)	Explain th	e program development life cycle	(10 marks)