



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of JKUAT)**

(A Centre of Excellence)

# **Faculty of Engineering & Technology**

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

**CERTIFICATE IN INFORMATION TECHNOLOGY (CIT M/SEP12)**

**EIT 1134: INTRODUCTION TO COMPUTER PROGRAMMING**

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2012**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

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

**Question One (Compulsory)**

- a) Explain the machine programming languages. **(5 marks)**
- b) Explain any **FOUR** disadvantages of machine programming languages. **(8 marks)**
- c) Draw a program, flowchart to calculate the area of a triangle given:  
Area =  $\frac{1}{2}$  (base x height) **(7 marks)**

**Question Two**

- a) Explain the following terms:
  - (i) Algorithm
  - (ii) Pseudo code
  - (iii) Flow chart
  - (iv) Object code **(8 marks)**
- b) Write a Visual Basic program to calculate area and perimeter of a circle given the following:-  
 $A = \pi r^2$   
 $\text{Perimeter} = 2\pi r$  **(10 marks)**

**Question Three**

- a) Explain the rules of creating variables in Visual Basic Programming language. **(8 marks)**
- b) Write a program pseudo code to read four integer values and calculate sum and average. **(8 marks)**
- c) Explain the following terms:
  - (i) Portability
  - (ii) Module re-use **(4 marks)**

**Question Four**

- a) Explain any **FOUR** arithmetic operators as used in Visual Basic Programming language. **(8 marks)**
- b) Write a Visual Basic (VB) program to read three integer values, compare them and display the largest. **(10 marks)**
- c) State any **TWO** data types in Visual Basic Programming language. **(2 marks)**

**Question Five**

- a) Explain any **FIVE** logical/comparison operators. **(10 marks)**
- b) Explain the program development life cycle. **(10 marks)**
- c)