



THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY

EIT 1133: INTRODUCTION TO COMPUTER PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

This paper consists of **FIVE** questions. Attempt question **ONE** 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 any **FIVE** logical/comparison operators. **(10 marks)**
- b) Explain the program development life cycle. **(10 marks)**

Question Two

- a) Explain any **FOUR** arithmetic operators as used in visual basic programming language. **(8 marks)**
- b) Write a visual basic (VB) program to calculate the area of a circle. Given:
Area = 3.14* radius * radius **(10 marks)**
- c) State any **TWO** data types in visual Basic programming language. **(2 marks)**

Question Three

- a) Explain the term variable as used in programming. **(2 marks)**
- b) Explain the following terms:
(i) Compiler
(ii) Interpreter
(iii) Translator
(iv) Object code **(8 marks)**
- c) Write a program pseudo code to read three integer values and calculate sum and average. **(10 marks)**

Question Four

Explain the **FIVE** categories of programming languages. **(20 marks)**

Question Five

- a) Draw a flowchart to read the name, hours and rate of pay. The program should calculate the Gross and Net pay given the following:
Gross = hours* rate
If Gross > 10000 then
Netpay = Gross – 4000
Else
Netpay = Gross **(10 marks)**
- b) Write a visual basic program to implement Q5 (a) above. **(10 marks)**