

(Knowledge for Development)

# **KIBABII UNIVERSITY COLLEGE**

A CONSTITUENT COLLEGE OF MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

## UNIVERSITY EXAMINATIONS

## 2014/2015 ACADEMIC YEAR

## FOURTH YEAR SECOND SEMESTER

## MAIN EXAMINATION

### FOR THE DEGREE OF BSC COMPUTER SCIENCE

COURSE CODE: CSC 464E

COURSE TITLE: PROGRAMMING LANGUAGES

**DATE:** 27<sup>TH</sup> APRIL, 2015

**TIME**: 8.00AM-10.00AM

### **INSTRUCTIONS TO CANDIDATES**

Answer Question One in Section A and Any other TWO (2) Questions in Section B

TIME: 2 Hours

## **SECTION A (24 marks):** Answer ALL questions.

#### Question one

a)	What Innovations were seen in FORTRAN programming language?	[5 marks]
b)	At what stage do require to compile a program?	[3 marks]
c)	Define a computer language?	[2marks]
d)	Illustrate the three selection and repetition structures provided by Java.	[3 marks]
e)	How can you evaluate programming technologies?	[3 marks]
f)	Give the function of a scanner in a compiler structure?	[3 marks]
g)	What attributes must be found in a programming language to allow compilation	n?[3 marks]
h)	Distinguish between a compiler and an interpreter.	[2 marks]
i)	What are the Major C++ design goals?	[6 marks]

## SECTION B (30 marks): Answer ANY two questions.

#### Question two

a)	What is Pure Machine Code?	[3 marks]
b)	Although assembly languages greatly improved programming efficiency, what was its	
	drawback?	[3 marks]
c)	State and explain any five Programming Language Paradigms.	[5 marks]
d)	Give reasons as to why we still need compilers for our programs?	[4 marks]
Questio	on three	
a)	What is pseudo code?	[4 marks]
b)	What is Augmented Machine Code	[3 marks]
c)	Write a c++ Program to add two integers giving sufficient declaration and librar	ries required.
		[8 marks]
Questio	on four	
a)	Virtual Machine Code	[3 marks]
b)	What are the common characteristics of scripting languages?	[7 marks]
c)	Write a Pseudocode algorithm that uses counter-controlled repetition to solve the class-	
	average problem of your choice.	[5 marks]
Questio	on five	
a)	What is firmware?	[3 marks]
b)	What are the problems encountered in modern computing platforms?	[6 marks]
c)	What constitute language design mechanisms in line with Control?	[6 marks]