



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

**A. M. E. C. E. A**

**MAIN EXAMINATION**

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**AUGUST - DECEMBER 2018 TRIMESTER**

**FACULTY OF COMMERCE**

**DEPARTMENT OF ACCOUNTING AND FINANCE**

**REGULAR PROGRAMME**

**CID 084: COMPUTER PROGRAMMING**

**Date: DECEMBER 2018**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions**

- Q1. a) Explain and give two examples of how computer programming can be used to solve day to day problems in organizations **(4 Marks)**
- b) Define the following terms as used in computer Programming. **(6 Marks)**
- a) Writing Program
  - b) Compiling Program
  - c) Executing Program
- c) What is logical error? **(3 Marks)**
- d) Explain how a for loop differ from a while loop. **(3 Marks)**
- e) What is an Array? **(4 Marks)**
- f) Using C++ Programming language, write a program that can do summation of two integers prompting for input from the keyboard and representing the results on the screen as an output. **(4 Marks)**
- g) Giving two examples and explain what is initialization of variables? **(6 Marks)**
- Q2. a) Explain the following terms as used in computer programming. **(8Marks)**
- a) Variables
  - b) Source code

- c) String
- d) Execution

b) State and Explain the Different Languages Used in Computer Programming **(6Marks)**

c) What will be the output of this code? **(4 Marks)**

```
# include <iostream>
# include <string>
using namespace std;
int main( )
{
    string cid084 = "this is a programming class";
    std::cout<<cid084;
    return 0;
}
```

Q3. a) How do Semantic Errors occur in the written code? Give an example of a semantic error. **(4 Marks)**

b) Explain your understanding of syntax error. Give at least two examples of syntax errors. **(4 Marks)**

d) Explain these two commands as used in C++ Programming. **(4 Marks)**

- a) Std::cout<<
- b) Std::cin>>

e) Giving examples explain two data types used in C++ Programming? **(4 Marks)**

f) Explain what are comments and how they are done in C++ giving atleast one example of a comment **(4 marks)**

Q4. a) Give two examples of high level programming languages. **(4 Marks)**

b) Write a program that outputs the square root of 900 and the square root of 9 when run **(8Marks)**

c) Programs regardless of the languages they are written in contain two fundamental parts. Clearly state and explain these Fundamental parts. **(4 Marks)**

d) Write simple C++ code to output the following. **(4 Marks)**  
**a. Welcome to C++ Programming. Programming solves many day to day problems**