



**PAN AFRICA CHRISTIAN UNIVERSITY**

**EXAMINATIONS PAPER**

**CERTIFICATE IN INFORMATION AND COMMUNICATION**

**TECHNOLOGY**

**END-OF-SEMESTER EXAMINATION**

**DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY**

**COURSE CODE: CICT 0113 DICT 113**

**COURSE TITLE: INTRODUCTION TO PROGRAMMING**

**DATE: AUG 2023**

**SECTION ONE: (COMPULSORY) 10 MARKS**

**QUESTION ONE**

- a) Explain the term programming and what it involves. [2 Marks]
- b) Write a C# code that will display the string “Hello world” on the computer screen. [4 Marks]
- c) Analyze each line of your program code in (b) above. [4 Mark]

**SECTION TWO: (ANSWER ANY THREE (3) QUESTIONS) 30 MARKS**

**QUESTION TWO.**

- a) In C# what is the difference between the method **Write()** and **Writeln()**. [3 Marks]
- b) Differentiate between single line comment and multiline comment. [3 marks]
- c) Discuss why C# is called a strongly typed language [4 Marks]

**QUESTION THREE.**

- a. Explain the two levels of programming languages [2 Marks]
- b. The following is program code.

```
LDA A, 20
ADD A, 10
STO B, A
NOP
```

- i. In which language is the program written? [2 Marks]
- ii. Explain what each line means. [6 Marks]

**QUESTION FOUR.**

- a. Explain the term variable in C# [2 Mark]
- b. Discuss any three variables in C# [6 Marks]
- c. Explain why the keyword **const** is useful when writing a C# code [2 Marks]

**QUESTION FIVE.**

- a) What is program syntax. [2 Marks]
- b) Explain the difference between source code and object code. [4 Marks]
- c) Explain the difference between assemblers and compilers. [4 Marks]

**QUESTION SIX.**

- a. Name the six steps of program development. [3 Marks]
- b. Discuss any four steps in (a) above [7 Marks]