

**LAIKIPIA EAST TECHNICAL AND VOcATIONAL COLLEGE**

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**IT/OS/ICT/CR/10/6: DEVELOP COMPUTER PROGRAM**

ICT TECHNICIAN LEVEL 6 : CAT 1

**INSTRUCTIONS:** Answer all questions. Time :1 hour

* 1. Differentiate between black box and white box testing. (4 Marks)
  2. Write a C program that uses a loop to generate and display numbers 0 to 9 (4 marks)
  3. Develop a pseudo code and a flowchart to print the largest number among two numbers entered by the user (6 marks)
  4. Write a C program for the above question (4 marks)
  5. List two relational operators and two logical operators used in C programming (4 Marks)
  6. Using appropriate examples explain two types of programming errors [4 Marks]
  7. Spiral approach of program development is essential in computer programming. State FOUR characteristics of spiral. (5 Marks)
  8. Differentiate the following as used in programming

1. Global variable and a local variable (2 marks)
2. While loop and Do… while loop (2 marks)
3. Compiler and Interpreter (2 marks)
4. Assembly and Machine Language (2 marks)
5. Variables and constants (2 marks)