KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR
SECOND YEAR, FIRST SEMESTER EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE
COMPUTER SCIENCE

Date: 19th April, 2022
Time: 2.30pm –4.30pm

KCS 200 - OBJECT ORIENTED PROGRAMMING 11

INSTRUCTIONS TO CANDIDATES

ANSWER **QUESTION ONE (COMPULSORY)** AND **ANY OTHER TWO**

QUESTION ONE COMPULSORY (30 MARKS)

a) Briefly generate the guidelines for naming variables in C++ language (4 marks)

b) Describe the basic building blocks of the C ++programming language (8 marks)

c) Using a class, write a program in C++ to find the area and perimeter of a circle (8 marks)

d) The types in C++ can be classified a number of ways. Describe any five such types
(10 marks)

QUESTION TWO (20 MARKS)

a) Briefly explain any five operators used in C ++ (10 marks)

b) Write a C++ to demonstrate operator overloading (5 marks)

c) Generate the reserved keywords in C programming (5 marks)

QUESTION THREE (20 MARKS)

a) Demonstrate the use and the syntax of loop and selection control structures in C++programming
(10 marks)

b) What is a class? Explain the declaration and in

c) itialization of a with example.
(10 marks)

QUESTION FOUR (20 MARKS)

a) Explain the concept of inheritance and its types.
(10 marks)

b) Discuss the benefits associated with object oriented programming
(10 marks)

QUESTION FIVE (20 MARKS)

a) Write a program in C ++ to print the numbers from 4 to 9 and their squares (8 marks)

b) C++ is a widely used professional language for various reasons. Explain the reasons.
(6 marks

c) What is polymorphism? Explain different types of polymorphism in C++ programming
(6 marks)