COURSE CODE: CIT392
COURSE TITLE: COMPUTER LABORATORY II
COURSE CREDIT UNIT: 2
TIME ALLOTED: 2 HRS
INSTRUCTION: attempt any four (4) questions. Each question carries 17½ marks

Question 1

a. With respect to the Java programming language and with the aid of examples, write short notes the following terms:
   i. Classes (3 marks)
   ii. Methods (3 marks)
   iii. The *this* keyword (2.5 marks)
b. The Central Bank of Togo has issued bank notes in denominations of 100, 50 and 1 Togolese Dollars. Write a Java program that accepts any integer amount supplied by a user and calculates the smallest number of bank notes required to issue that amount of money to the user. [Hint: For example, to issue 100 Togolose dollars, we need only 1 bank note] . (9 marks)

Question 2

a. We want to determine the largest and the smallest number in a list of values. All values are integers. Write a C++ program that accepts the number of values from a user and then accepts the values themselves and then outputs which is the largest and which is the smallest. (13 marks).
b. With respect to C++ arrays, define the following terms:
   i. Array (1 mark)
   ii. Index (1 mark)
   iii. Dimension (1 mark)
c. With the aid of an example, explain briefly C++ pointers (1.5 marks).

Question 3

a) Define the following**;**

      i)   Object-Oriented Programming Language (1.5 marks)
      ii) Structured Programming Language (1.5 marks)
      iii) Procedural Programming Language (1.5 marks)

b) Outline the major features of;

      i)   Object-Oriented Programming Language (2 marks)
      ii)   Structured Programming Language (2 marks)
      iii)   Procedural Programming Language (2 marks)

c) Contrast between;

      i)   Object-Oriented Programming Language (2.5 marks)
      ii) Structured Programming Language (2.5 marks) and
      iii) Procedural Programming Language (2 marks)

Question 4

(a)   Outline any four elements of a Table in a Database.

(b)   Write briefly on the four.

(17½ marks)

Question 5

(a)   List any six Windows XP commands.

(17½ marks)

Question 6

a) There are five (5) independent libraries for input/output operations in Ada. List them.

b) Write short notes on the five (5).

(17½ marks)