Exam for Certificate Course

in

Object-Oriented Programming in C++

Dr. F. Solms

Solms Training and Consulting

http://www.SolmsTraining.co.za, E-Mail:queries@SolmsTraining.co.za, Tel: +27 11 486 4270

April 2003

Use UML notation throughout.

1. Explain

   - why one should use only pubic virtual inheritance and

   - why ne should never overwrite a non-virtual method.

2. Implement a generic circular, bi-directional LinkedList class for holding any object by basing the class on a template. Write a little test application which inserts person objects in one list and integers in another. The person class is should be a very simple class with persons simply having a name.

(Total: 100)