Programming in C and C++

Write brief notes on four of the following aspects of the language C++. In some of the cases it may be appropriate to compare what C++ does with the situation in other programming languages such as C, ML or Modula-3.

(a) Overloaded functions and operators.

(b) Templates as a way of achieving operations on lists where the types of the items in the lists must be kept flexible.

(c) Consistency checks when a program is kept in several files and these are compiled at different times.

(d) Inheritance and virtual functions.

(e) The problems of writing code that is portable from one host machine to another.

[5 marks each]