Programming in C and C++

For five of the following C or C++ features write a very short fragment of code (perhaps 2 or 3 lines will suffice in most cases) that illustrates the syntax involved. In each case explain very briefly what your example achieves.

(a) preprocessor macros and conditional compilation

(b) casts that convert from one pointer type to another

(c) C and C++ style comments

(d) the declaration of a simple C++ class

(e) overloading the operator ‘+’

(f) the C setjmp function

(g) the switch statement, including a default label

[4 marks each]