

1996 Paper 5 Question 5

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]