## 1996 Paper 7 Question 3

## Comparative Architectures

Discuss five of the following in 100-150 words:

- (a) delayed loads
- (b) delayed branches and annulment
- (c) subword (for example byte) memory access
- (d) unaligned memory access
- (e) variable length instructions
- (f) multi-cycle (for example division) instructions
- (g) multiple functional units and multiple issue

You may find it useful to discuss these issues with respect to two architectures which differ in the aspect concerned. [4 marks each]