

## 2003 Paper 12 Question 2

### Computer Design

- (a) Name and describe *three* reasons for a cache miss. [6 marks]
- (b) For *each* reason, suggest a technique for reducing the number of misses. [6 marks]
- (c) Why might it be advantageous to use a set-associative cache instead of a fully associative one? [4 marks]
- (d) Describe *two* techniques for reducing the miss penalty. [4 marks]