

**COMPUTER SCIENCE TRIPOS Part II – 2012 – Paper 7**

**5 Comparative Architectures (RDM)**

- (a) How can specialising a processor design for a specific application domain help to reduce its power consumption? [7 marks]
- (b) For many applications chip-multiprocessors consume less power when compared to a superscalar uniprocessor design of equal performance. Why is this the case? [7 marks]
- (c) Why does a vector processor offer a particularly energy efficient solution to execute some types of program? [6 marks]