VLSI Design

(a)	Sketch stick diagrams of memory cells for:	
	(i)	read-only memory;

(ii) static memory; [3 marks](iii) dynamic memory using standard CMOS; [3 marks]

[3 marks]

- (*iv*) dynamic memory for dense layout. [3 marks]
- (b) Extend your design for parts (ii) and (iii) to accommodate four read ports. What would inhibit such an extension for design (iv)? [6 marks]
- (c) State two considerations that are becoming increasingly important in memory design as feature sizes decrease. [2 marks]