

1997 Paper 2 Question 2

Digital Electronics

What is a *don't care term* and how can such terms arise in practice? [5 marks]

Explain the operation of an edge triggered D-type flip flop, taking care to explain any timing constraints. [5 marks]

Explain the operation of a tristate output. How are such outputs used? [5 marks]

Give the circuit diagram for a CMOS tristate inverter. [5 marks]