## 1998 Paper 10 Question 13

## Digital Electronics

In the context of digital logic, what is a multiplexer?
Sketch the design of an 8-bit to 2-bit multiplexer.
Suppose you had to implement an arbitrary function of seven variables and were provided with nine 8 -bit to 1 -bit multiplexers and an inverter. How would you implement the function?
[10 marks]

