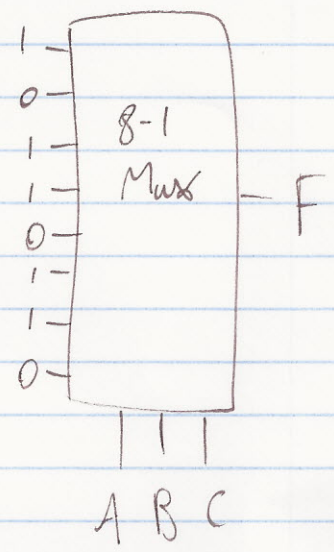


Implementing Functions Using 1 Mux

A	B	C	F
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0



Can create any function using a MUX like above.
Not more efficient than working out the gates but it can be handier.

This was covered because he realised he forgot it when writing/reading the exam.

The Exam

He recommends 1 min/mark with 10 mins leftover

90 min, 80 marks, 4 questions, no calculator

Q1 (a) → (e) Number conversions between bases

Remember fast conversions between binary, octal, hex

marks

- 4 (a) ~~Bin~~ → Bin, Hex, Dec, Oct
- 4 (b) Bin → base (not hex/oct/dec)
- 2 (c) ~~Oct~~ → Bin
- 4 (d) Hex → Bin, ~~Oct~~
- 6 (e)

(2) i } ASCII (to/from); Number of bits in representation
(2) ii }
(2) iii }