

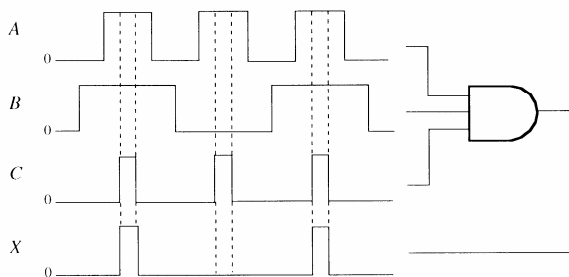
# Digital Electronics

## Answer Sheet 3

- Using binary representations, U is coded as 1010101, k is coded as 1101011. Converting these to hex gives U as 55 and k as 6B.
- As the Gray code sequence is stepped through, only ONE bit of the code word changes at each step.
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A	B	C	NAND	NOR
0	0	0	1	1
0	0	1	1	0
0	1	0	1	0
0	1	1	1	0
1	0	0	1	0
1	0	1	1	0
1	1	0	1	0
1	1	1	0	0

- $2^{16}$



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6.  $Z = A \cdot B + C \cdot D$

A	B	C	D	AB	CD	Z
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	1	0	0	0	0
0	0	1	1	0	1	1
0	1	0	0	0	0	0
0	1	0	1	0	0	0
0	1	1	0	0	1	1
0	1	1	1	0	1	1
1	0	0	0	0	0	0
1	0	0	1	0	0	0
1	0	1	0	0	0	0
1	0	1	1	0	1	1
1	1	0	0	1	0	1
1	1	0	1	1	0	1
1	1	1	0	1	0	1
1	1	1	1	1	1	1

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