

**Encryption State Machine**

**Part A**

**Part B**

clock	1	2	3	4	5	6	7	8	9	10	11	12
In	0	1	0	1	1	0	0	1	1	1	0	1
A	0	1	1	0	1	1	1	0	1	0	0	1
B	0	1	0	1	1	0	0	1	1	1	0	1

**Part C**

clock	1	2	3	4	5	6	7	8	9	10	11	12
In	0	1	0	1	1	0	0	1	1	1	0	1
A	1	0	0	1	0	0	0	1	0	1	1	0
B	0	1	0	1	1	0	0	1	1	1	0	1