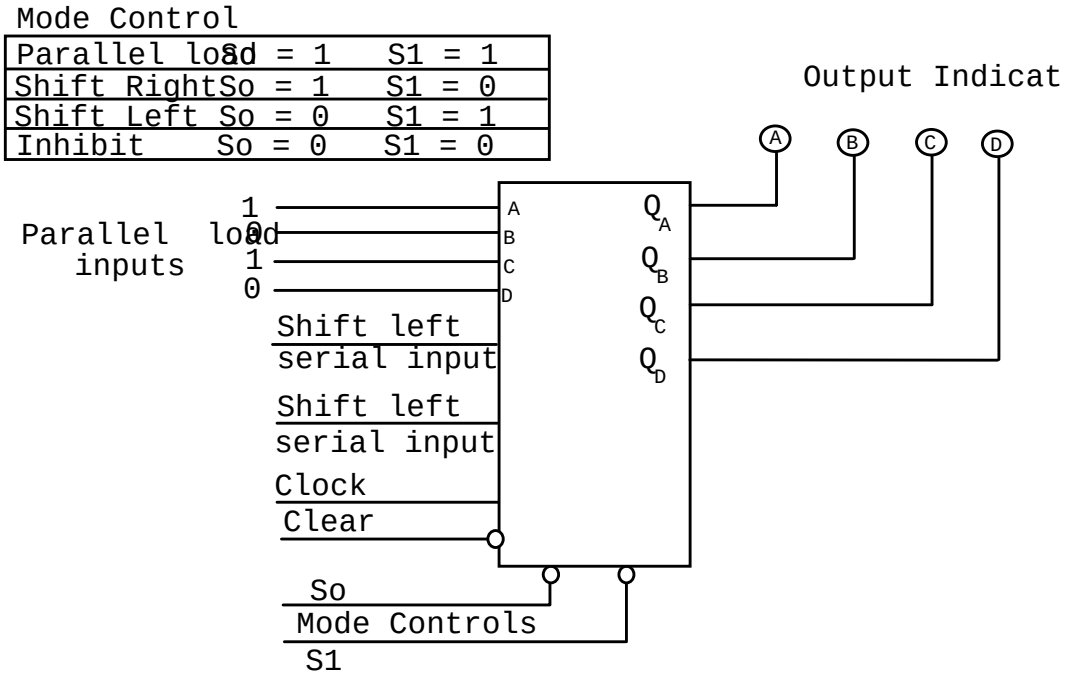
Name _____

Universal Shift Register (74194) In-Class Example

Inputs							Outputs			
Line Number	Clear	Shift Left	Shift Right	S_0	S_1	Clock Pulse	A	B	C	D
1	0	X	X	X	X					
2	1	1	0	0	1	↑				
3	1	0	1	0	1	↑				
4	1	1	0	0	1	↑				
5	1	0	1	0	1	↑				
6	1	0	1	0	1	↑				
7	0	X	X	X	X					
8	1	0	1	1	0	↑				
9	1	1	0	1	0	↑				
10	1	0	1	1	0	↑				
11	1	0	1	1	0	↑				
12	1	0	1	1	0	↑				
13	1	1	1	1	1	↑				
14	1	1	0	0	1	↑				
15	1	0	1	1	0	↑				
16	1	1	0	1	0	↑				



Universal Shift Register (74194) In-Class Example – Cont'd

Inputs							Outputs			
Line Number	Clear	Shift Left	Shift Right	S_0	S_1	Clock Pulse	A	B	C	D
1	0	X	X	X	X					
2	1	1	1	0	1	↑				
3	1	0	1	0	1	↑				
4	1	1	0	0	1	↑				
5	1	0	1	0	1	↑				
6	1	0	1	0	1	↑				
7	0	X	X	X	X					
8	1	0	1	1	0	↑				
9	1	1	1	1	0	↑				
10	1	0	0	1	0	↑				
11	1	0	0	1	0	↑				
12	1	0	1	1	0	↑				
13	1	1	0	1	1	↑				
14	1	1	0	0	1	↑				
15	1	0	1	1	0	↑				
16	1	1	0	1	0	↑