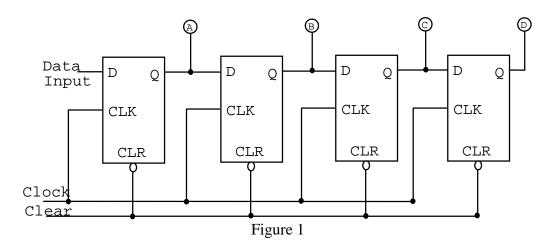
## INTRODUCTION TO COMPUTER TECHNOLOGIES Shift Register PRETEST

## Refer to Fig. 1 (below) for questions 1 - 17.

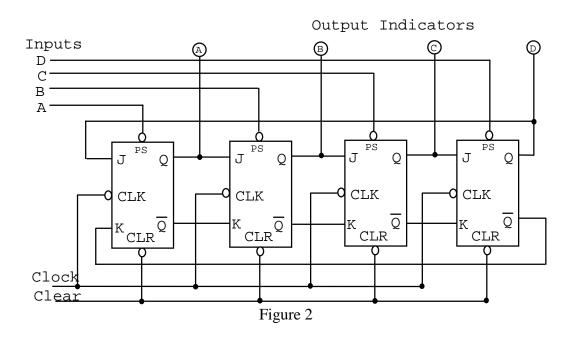


- 1) The unit shown is a \_\_\_\_\_ load shift register.
- 2) The shift register is best described as a \_\_\_\_\_ type unit.

Complete the given table.

	Inpu	ıts		Outputs					
Line	Clear	Data	Clock	FF A	FF B	FF C	FF D		
Number		Input	Pulse	A	В	C	D		
3	0	0	$\uparrow$						
4	1	1	$\uparrow$						
5	1	1	$\uparrow$						
6	1	0	$\uparrow$						
7	1	0	$\uparrow$						
8	1	1	$\uparrow$						
9	0	1	$\uparrow$						
10	1	0	<b>↑</b>						
11	1	1	$\uparrow$						
12	1	1	$\uparrow$						
13	1	0	$\uparrow$						
14	1	1	$\uparrow$						
15	0	0	$\uparrow$						
16	0	1	$\uparrow$						
17	1	1	<b>↑</b>				·		

## Refer to Fig. 2 (below) for questions 18 - 34.

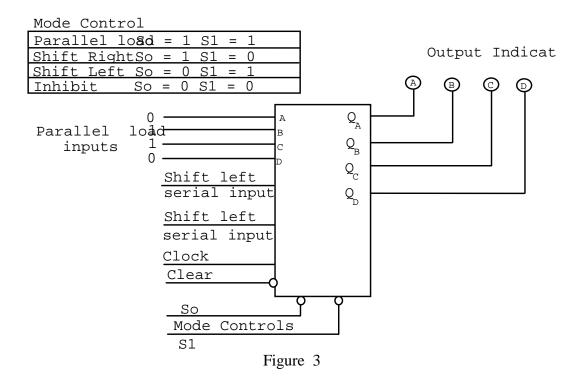


- 18) The unit shown is a \_\_\_\_\_ load shift register.
- 19) The shift register is best described as a \_\_\_\_\_ type unit.

Complete the given table.

Inputs							Outputs			
Line	Clear					Clock	FF A	FF B	FF C	FF D
Number		A	В	C	D	Pulse	A	В	C	D
20	0	1	1	1	1					
21	1	1	0	1	0					
22	1	1	1	1	1	$\uparrow$				
23	1	1	1	1	1	$\uparrow$				
24	0	1	1	1	1					
25	1	0	0	1	0					
26	1	1	1	1	1	$\uparrow$				
27	1	1	1	1	1	$\uparrow$				
28	1	1	1	1	1	$\uparrow$				
29	1	0	1	1	1					
30	0	1	1	1	1					
31	1	1	0	1	0					
32	1	1	1	1	1	$\uparrow$				
33	1	1	1	1	1	$\uparrow$				
34	1	1	1	1	1	$\uparrow$				

## Refer to Figure 3 for questions 35 - 51.



The shift-left operation is accomplished with the 74194 IC when So is \_\_\_\_\_ (High/Low), S<sub>1</sub> is HIGH, and the clock pulse goes from LOW to HIGH.

Complete the given table.

Complete the given table.											
Inputs							Outputs				
Line Number	Clear	Shift Left	Shift Right	So	$s_1$	Clock Pulse	A	В	С	D	
36	0	0	1	0	0	$\uparrow$					
37	1	0	1	1	1	$\uparrow$					
38	1	0	1	1	0	$\uparrow$					
39	1	0	0	1	0	$\uparrow$					
40	1	0	0	1	0	$\uparrow$					
41	1	0	1	1	0	$\uparrow$					
42	0	0	0	0	0	$\uparrow$					
43	1	1	0	1	1	$\uparrow$					
44	1	1	0	0	1	$\uparrow$					
45	1	0	0	0	1	$\uparrow$					
46	1	1	0	0	1	$\uparrow$					
47	1	1	0	0	1	$\uparrow$					
48	1	0	0	0	1	$\uparrow$					
49	1	0	0	0	1	$\uparrow$					
50	1	0	0	1	1	$\uparrow$					
51	1	0	0	0	1	$\uparrow$					