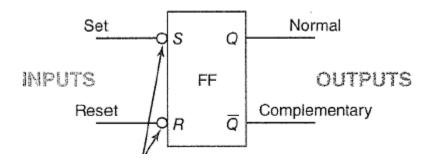
## RS Flip Flop Self-Test Questions

Question #1 is referring to the picture below.



 The R-S flip-flop in Fig. 7-1 has active ———— (HIGH, LOW) inputs.

Answer: Low because it contains a circle in the input

The following two questions depend on viewing the diagram below:

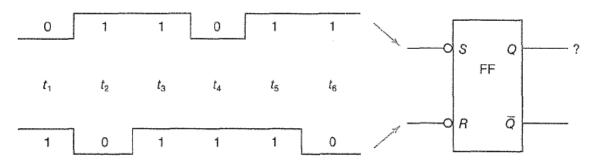


Fig. 7-5 R-S flip-flop pulse-train problem.

 List the mode of operation of the R-S flip-flop for each input pulse shown in Fig. 7-5. Answer with the terms "set," "reset," "hold," and "prohibited."

Answer:

- 1. Set
- 2. Reset
- 3. Hold
- 4. Set
- 5. Hold
- 6. Reset
- 7. Q = 0 Q' = 1

## **RS Flip Flop Self-Test Questions**

3. List the binary output at the normal output (Q) of the R-S flip-flop for each of the pulses shown in Fig. 7-5.



 The set and reset inputs (S, R) of the clocked R-S flip-flop in Fig. 7-6 are active \_\_\_\_\_ (HIGH, LOW) inputs.

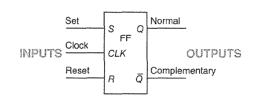


Fig. 7-6 Logic symbol for a clocked R-S flip-flop.

```
Answer:
High
```

The next two questions depend on viewing the diagram below:

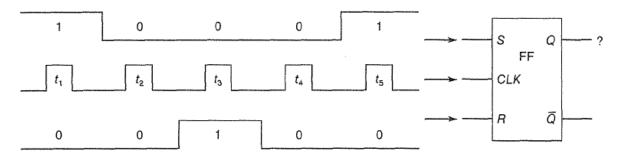


Fig. 7-9 Clacked R-S flip-flap pulse-train problem.

 List the mode of operation of the clocked R-S flip-flop for each input pulse shown in Fig. 7-9. Answer with the terms "set," "reset," "hold," and "prohibited."

## Answer:

- 1. Set
- 2. Hold
- 3. Reset
- 4. Hold
- 5. Set

## RS Flip Flop Self-Test Questions

6. List the binary output at the	normal
output $(Q)$ of the clocked R-	S flip-
-	
flop for each of the pulses sho	own in
Fig. 7-9.	

Answer:		
1. 1		
2. 1		
3. 0		
4. 0		
5. 1		

To set a flip-flop means to cause the normal output (Q) to go \_\_\_\_\_ (HIGH, LOW).

A manuam		
Answer:		
1.11		
High		
i iigii		

8. Refer to Fig. 7-9. The *CLK* on this clocked R-S flip-flop might be labeled *EN* for \_\_\_\_\_ (encoder, enable) by some manufacturers.

Answer:			
Enable			