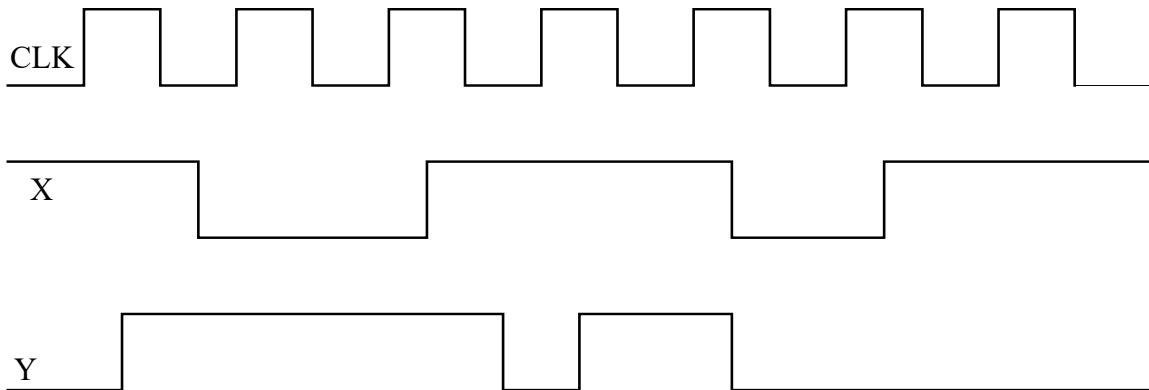
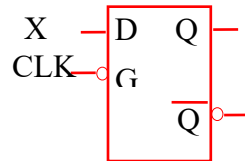


First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

20 Points

Problem 1

Complete the timing diagram if the following signals are applied as indicated.



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20 Points

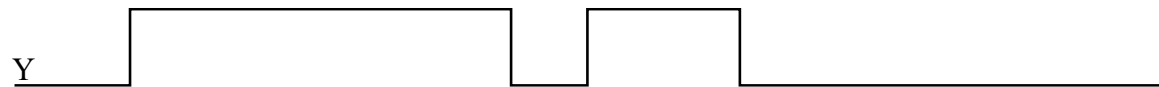
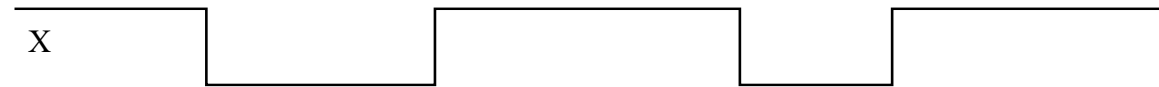
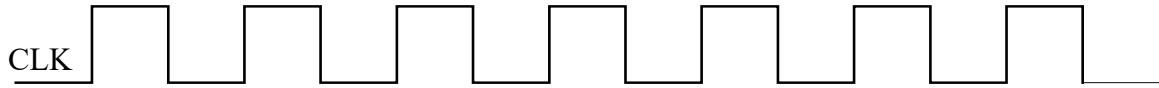
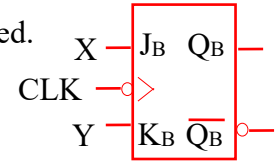
Problem 2

Using SR flip-flops, design a ripple counter to count from 12 to 6 and repeat.

20 Points

Problem 3

Complete the timing diagram if the following signals are applied as indicated.

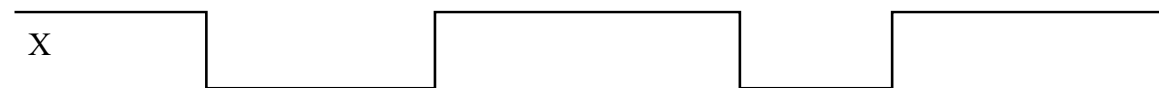
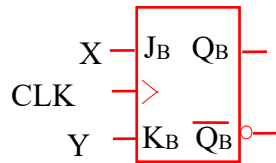


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20 Points

Problem 4

Complete the timing diagram if the following signals are applied as indicated.

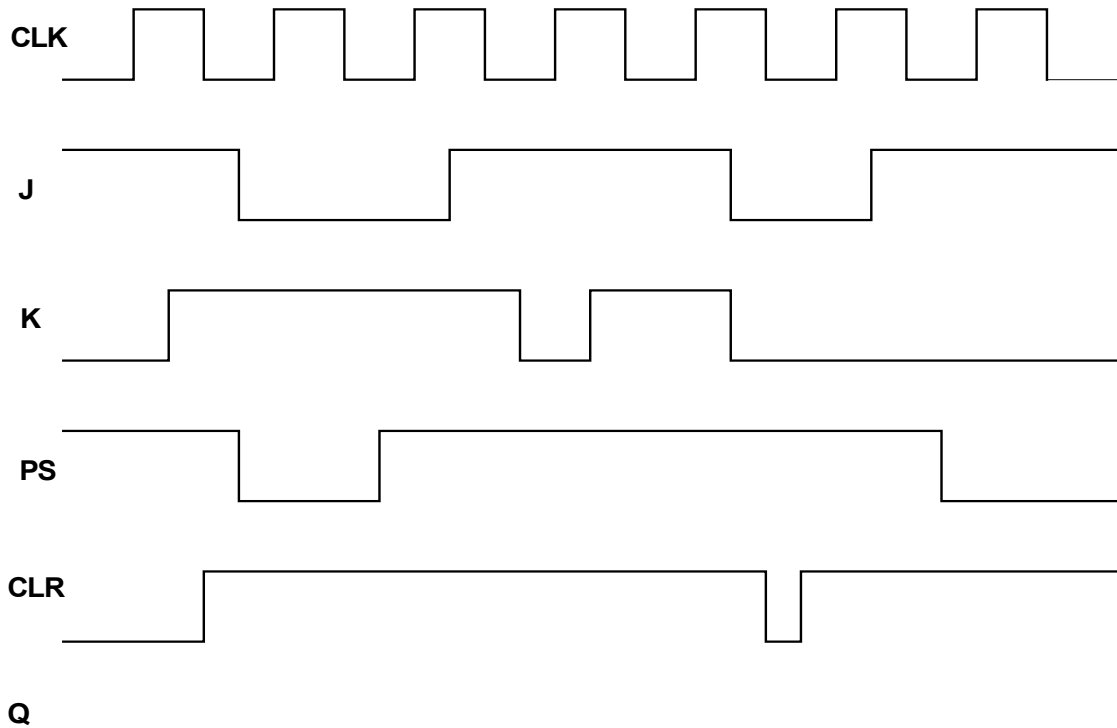
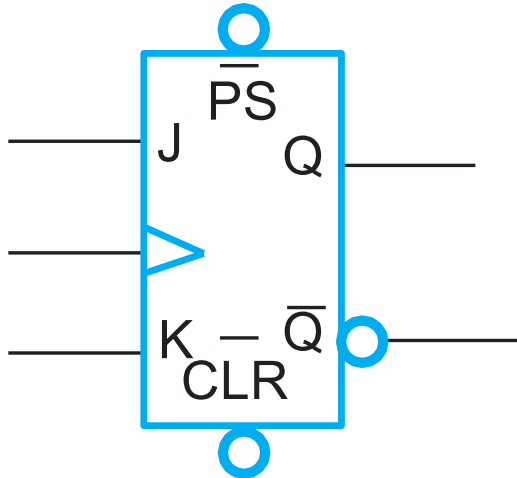


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20 Points

Problem 5

Complete the following timing diagram for a JK flip-flop with a low active preset (PS) and clear (CLR).



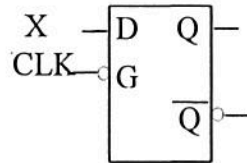
Due 4/14/2022

First Name: \_\_\_\_\_ Last Name: Key Section: \_\_\_\_\_

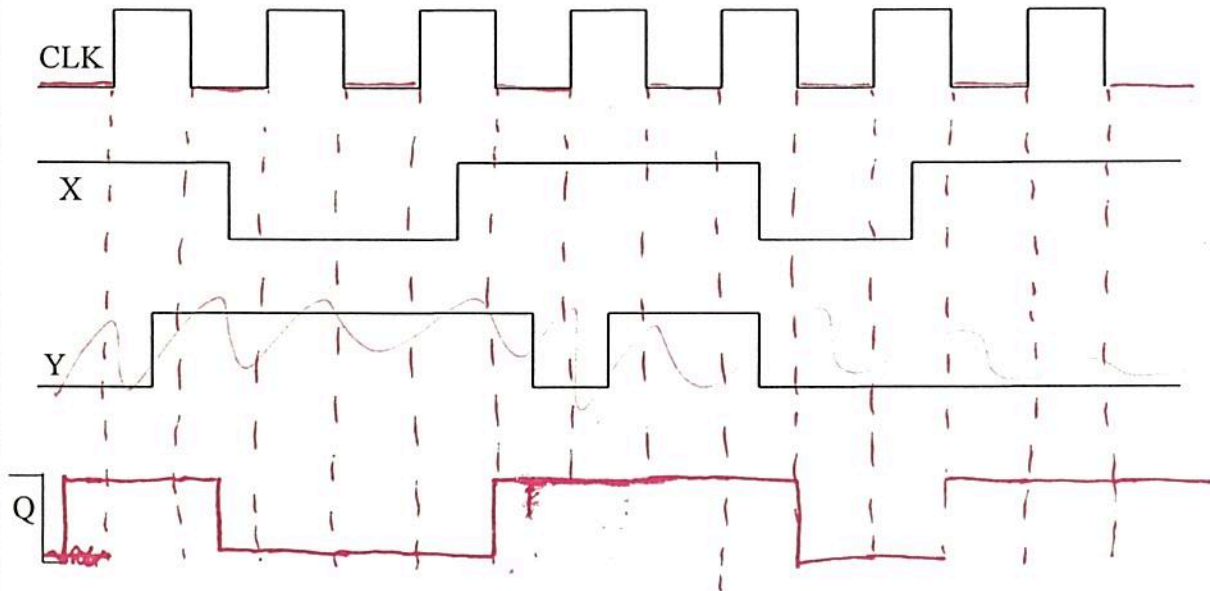
15 Points

Problem 1

Complete the timing diagram if the following signals are applied as indicated.



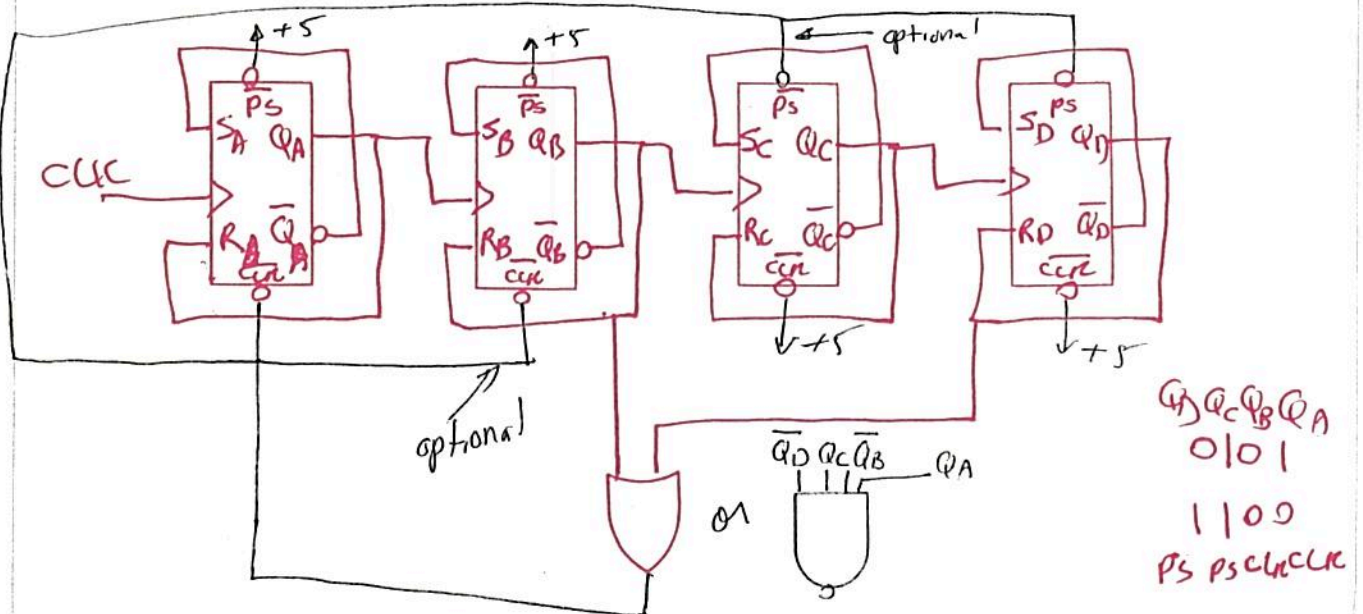
D Latch



15 Points

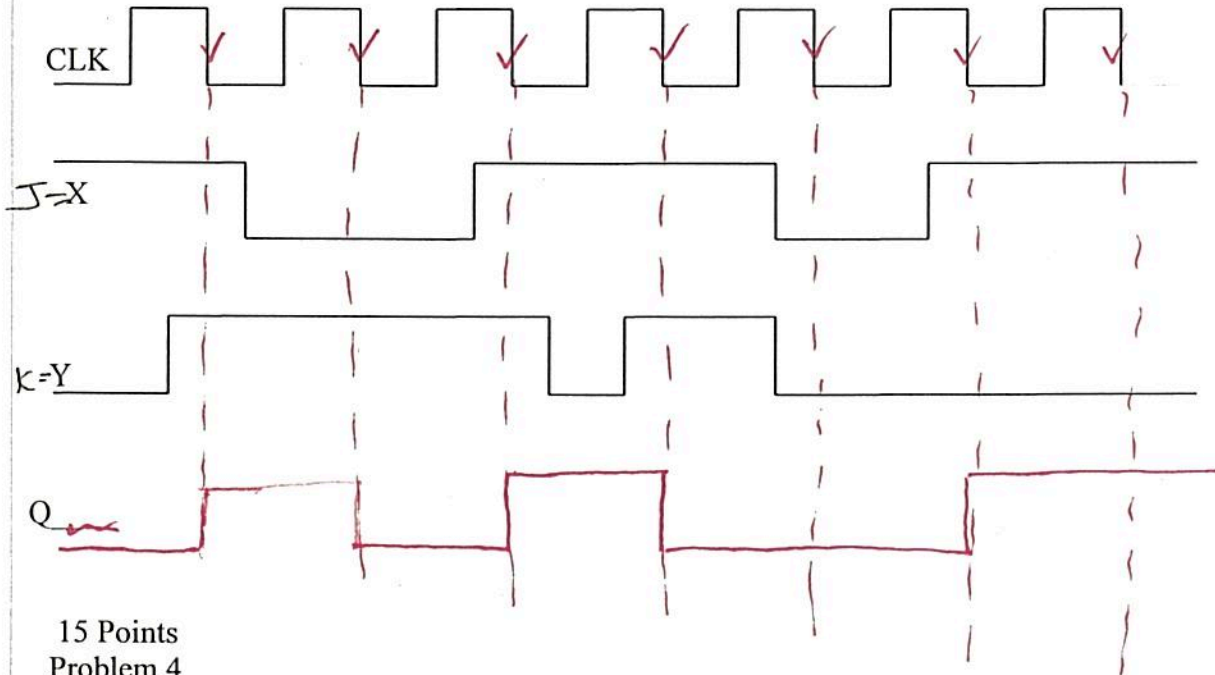
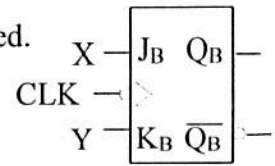
Problem 2

Using SR flip-flops, design a ripple counter to count from 12 to 6 and repeat.



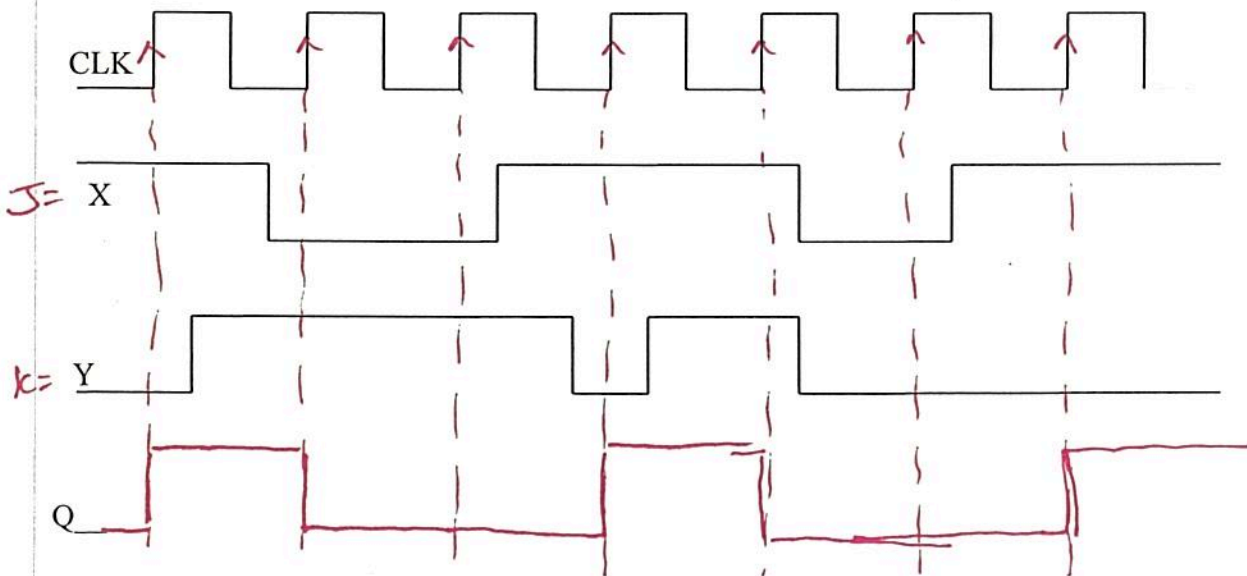
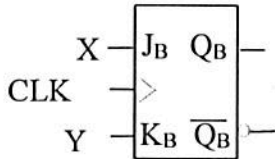
15 Points  
 Problem 3

Complete the timing diagram if the following signals are applied as indicated.



15 Points  
 Problem 4

Complete the timing diagram if the following signals are applied as indicated.



15 Points

Problem 5

Complete the following timing diagram for a JK flip-flop with a low active preset (PS) and clear (CLR).

