**Practice Problems Chapter-8**

1. The sequence 1011 is applied to the input of a 4-bit serial shift register that is initially cleared.

What is the state of the shift register after three clock pulses?

1. If a 10-bit ring counter has an initial state 0101001111, determine the waveform for

each *Q* output.

1. How many states are there in an 8-bit Johnson counter sequence? Write down all sequence.



