

## ACOL215 (Problem Solving)

(10th Dec.)

Q. Use JK flip-flops to design a counter with the following repeated binary sequence:

0, 1, 2, 3, 4, 5, 6

Q. Recall the question in Quiz 5, where you had drawn a circuit that generates six repeated timing signals using six flip-flops. Do the same exercise with three flip-flops using a switch-tail ring counter.

Q. How do we store the following bit string in RAM so that it is possible to detect as well as correct a single error?

001101010101110