

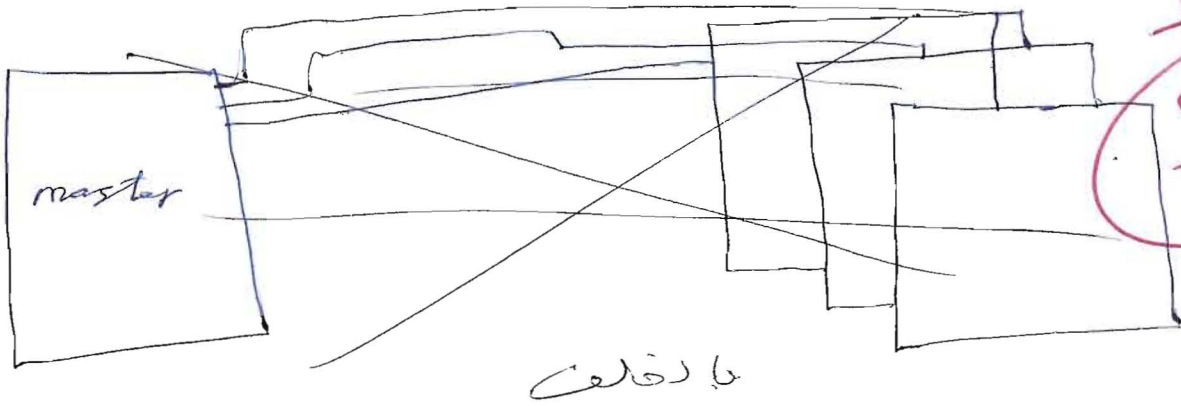
Quiz 2

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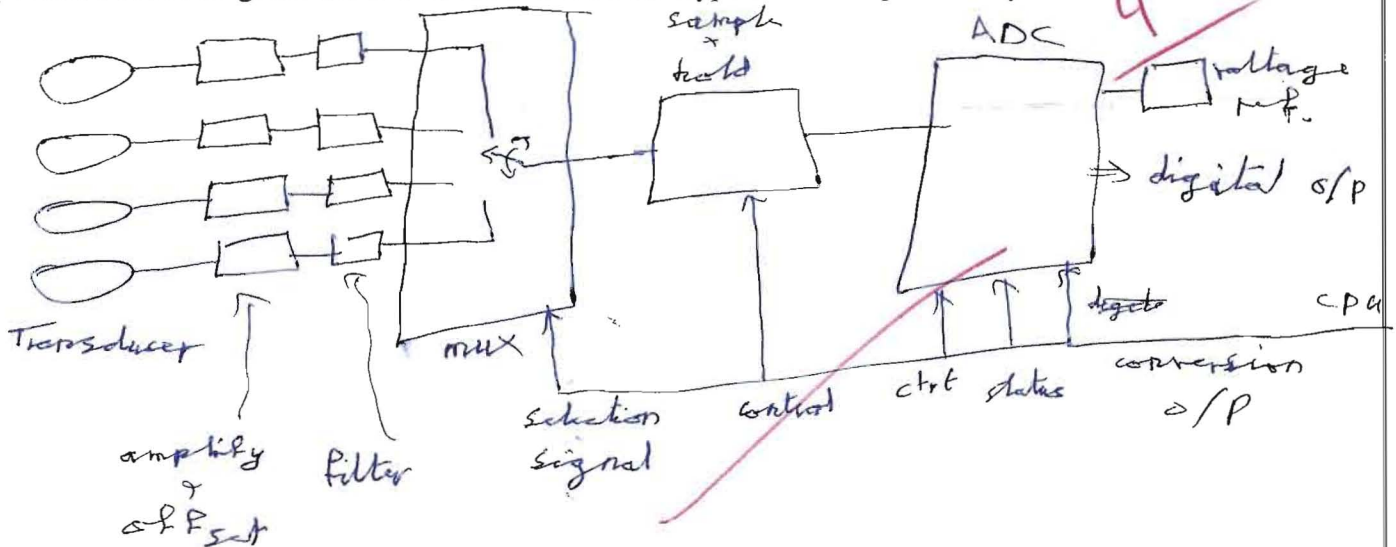
Instructions: Time 15 minutes. Closed books and notes. No calculators. Please answer all problems in the space provided. **No questions are allowed.**

<Good Luck>

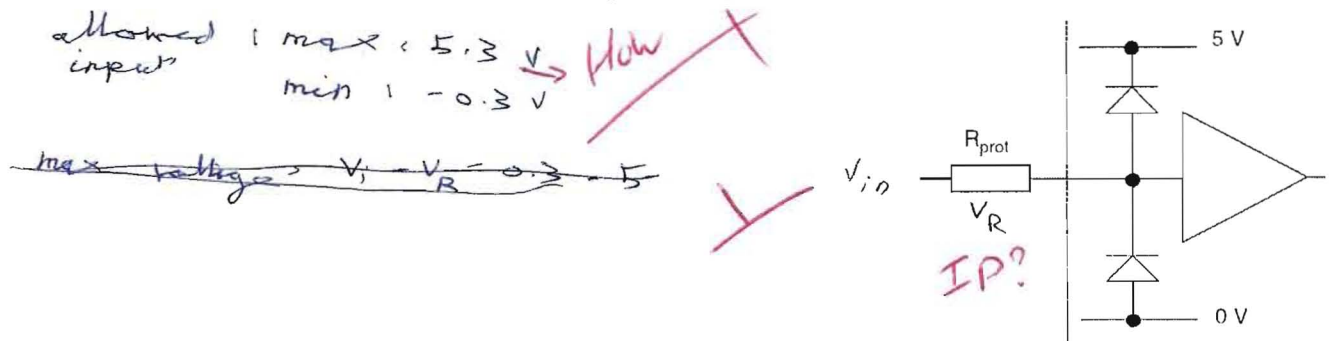
1. Draw a diagram that shows the connections of a synchronous master with three slaves.



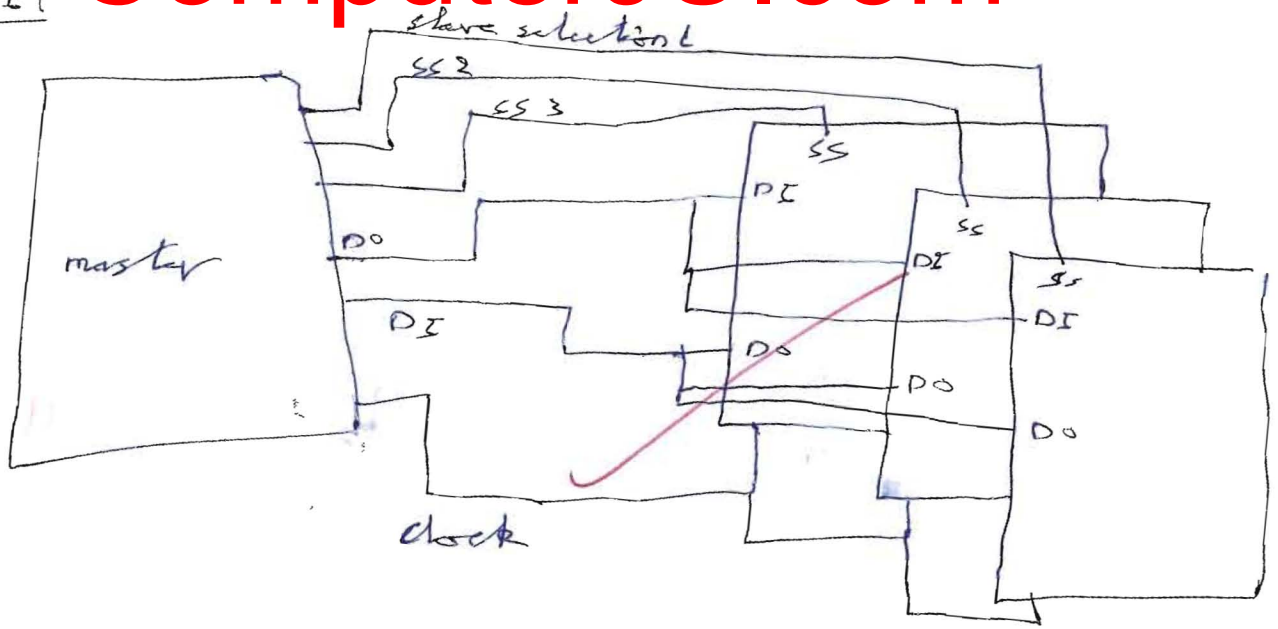
2. Draw a block diagram that shows the elements of a typical data acquisition system.



3. For the input protection circuit shown below, assume that $R_{prot} = 2 \text{ k}\Omega$ and the diode's forward voltage is 0.3 V . What is the maximum and minimum input voltage spikes that this circuit can protect against?



Q.1



Rhakesh RAS @ kashmir

Lab design