## 2006 PhD Qualifying Examination Prof. Yoshio Nishi

- 1. Please explain MOSFET operation at low Vg and Vd.
- 2. What are the factors which influence the subthreshold characteristics, i.e. s-factor, for long channel MOSFET, and for very short channel MOSFET?
- 3. When you see a steeper experimental subthreshold slope than theory tells, what would you question about that?