Unit 3
Lecture 3.1 Quiz

1) Select the appropriate electrode names in a standard organic field-effect transistor.
   a. Gate Electrode
   b. Anode
   c. Cathode
   d. Source Electrode
   e. Counter Electrode
   f. Reference Electrode
   g. Drain Electrode
   h. Choices (a), (c), and (f)
   i. Choices (b), (e), and (f)
   j. Choices (a), (d), and (g)
   k. Choices (a), (c), and (g)

2) Which of the following is true about organic field-effect transistor response data?
   a. In the saturation regime, the device follows Ohm’s Law.
   b. A larger magnitude of the gate voltage results in a lower magnitude of the drain current for a given drain voltage.
   c. The saturation regime occurs at larger magnitudes of drain voltage (at a fixed gate voltage) relative to the linear regime.
   d. The threshold voltage is the gate voltage at which the drain current-gate voltage curve intercepts the horizontal axis.
   e. In the saturation regime, the device has no current flow.

3) In the saturation regime and at a fixed drain voltage, the drain current is proportional to:
   a. The gate voltage
   b. The square root of the gate voltage
   c. The square of the gate voltage
   d. The gate current
   e. The square of the gate current
   f. The square root of the gate current