**Quiz # 2** (ECE 493/593 Telehealthcare Engineering)

x/100

(Sep 20, 2012 Thursday)

* Only covers topics in the past 2 weeks (mobile health lectures).
* Closed book & notes.
* 25 minutes in total. Total 100 points. 5% of your final grade.

**Question 1**. Why does a sensor network use hop-to-hop loss recovery policy instead of TCP's end-to-end recovery?

**Question 2**. Explain how the Erasure Codes can be used to recovery lost packets.

**Question 3**. If we send out raw medical signals, how can we use prediction schemes to handle packet loss?

**Question 4**. If we send out Wavelet coefficients, how do we handle data loss?

**Question 5**. Explain the benefits of using PSoC chip in medical sensor network.

**Question 6**. How can Codeblue's pulse oximeter detect SpO2 level in the patient's body?

**Question 7**. How does Codeblue detect the medical data's source location (i.e., coming from which sensor)?

**Question 8**. If a sensor drains the battery, how does its neighbors send the data out without it?