

## QE for CS546 Wireless Mobile Internet (each 20 points)

1. Define each (with max five lines).
  - PSNR
  - IEEE 802.11p
  - Cognitive Radio
2. Propose a way to detect hidden terminal problem in WiFi network?  
Is it possible to detect it completely? Why or why not?
3. What could be a way to provide indoor localization service using sensors in smartphones?
4. What is a way to reduce the handoff delay in WiFi?
5. Why the VoIP capacity per Access Point is around 10 % of its max data rate?