Homework 3 (Module: Public Wi-Fi Security)

a. Say you are on the KSU campus with a laptop. How can you know which wireless networks are available? What is the difference of KSU Guest and KSU Wireless in terms of security standards? State how you can connect to KSU Wireless.

b. Check if you are able to access IEEE Xplore Digital Library from your home.

   Install the Cisco VPN client on your home desktop from the ITS website (http://www.k-state.edu/its/security/vpn/). You can also use your laptop for this task while you are away from the KSU campus.

   After installing the VPN client, connect it with the KSU VPN server by providing your KSU eID and password. Now are you able to access IEEE Xplore Digital Library and download research papers? Try to download a paper you are interested in (or a paper published in IEEE TIFS 2012).

   Report the above experience. Include screenshots to substantiate your statements, if necessary. Does IEEE automatically recognize you as a KSU user?
c. What is the difference between the full and split VPN tunnel mode? Explain with a diagram and an example. Which mode should you use while you are accessing the Internet from a public Wi-Fi? Why? Explain in detail.

d. How can an attacker hijack your HTTP sessions while you are browsing the Web in a public Wi-Fi? Why does not the attacker succeed if you browse HTTPS websites only?