

Hand in a printed copy with your answers.

Homework: /SI110/The Cyber Battlefield/Networks: Wireless Networking

1. For each of the network stack layers, state whether the layer "stays the same" or "changes" when moving from a wired network using Ethernet to a wireless network using 802.11.

Application:	<input type="text"/>
Transport:	<input type="text"/>
Internet:	<input type="text"/>
Link:	<input type="text"/>
Physical:	<input type="text"/>

2. Name 2 things that Wireless security protocols such WEP, WPA1, and WPA2 provide:

3. Suppose you are at MIT and you open your wireless network control panel on your laptop and see that the only available open network is one with the ESSID "MITguest". Explain why this does not necessarily mean that there is only one base station/access-point for us to connect to.

4. Suppose you have an 802.11 base station/hub that is not connected to a network router, with five hosts PCs connected to it wirelessly and that's it. Explain why any one of the five host stations can ping each other, but none of them can access the web? (like www.google.com, etc).