**Homework Chapter 4**

Review Questions:

1. A, B, D
2. C
3. D
4. B
5. C
6. A, B
7. D
8. B
9. D
10. A, C, D
11. A, C
12. D
13. D
14. C
15. D
16. B, D
17. D
18. A, C
19. B, C
20. C
21. A, B, D
22. B
23. B
24. A
25. D

Case Projects:

4-1:

A) I will interconnect these two areas using fiber optics cable to guarantee immunity from interference.

B) Since the distance is greater than 328 feet, the cable that will work for this connection would be a fiber optic cable.

C) Because of the distance and the need to run at much higher speeds, my best option is fiber optic cable.

D) I have two options a wireless bridge and fiber optics, but since wireless bridges only provide up to 6 Mbps and I need at least 50 Mbps, my best only choice is fiber optics

E) Since laying cable is not feasible due to lack of communications infrastructure in Malaysia, the best wireless alternative is a Satellite Microwave System.

4-2: “A” because 328 feet is the limit for twisted pair. And “D” because fiber optic covers the possibility of greater bandwidth needs in case of a future growth.

4-3 “A” because 802.11n supports speeds up to 300 Mbps and you will be able to share files and printer like in a typical LAN and have the mobility employees need to use their laptops.