

Building a LAN Quiz 2

Name: _____ Date: _____

1. We are installing a DSL WAN connection in our new LAN. What kind of modem would we use?
 - a. A modem with two RJ45 connections, one for the LAN and one for the WAN
 - b. A modem with one RJ45 connection for the LAN and one RJ11 connection for the WAN
 - c. A modem with one RJ11 connection for the LAN and one RJ45 connection for the WAN
 - d. A modem with two RJ11 connections, one for the LAN and one for the WAN
2. We are installing a DSL WAN connection in our new LAN. What else do we install for the LAN?
 - a. Line terminators for the phone lines
 - b. 50 ohm resistors for the phone lines
 - c. Line filters for the phone lines
 - d. Line transformers for the phone lines
3. What tool do we use to cut cable ties around a bundle of existing Category cable?
 - a. Lock cutters
 - b. Small wire cutters
 - c. Utility knife
 - d. RJ45 crimpers
4. When pulling a copper cable through the ceiling or wall, dangers are
 - a. Touching the fiberglass insulation in the ceiling
 - b. Cutting the outside insulation and then the fragile inside conductors
 - c. Damaging the steel beams from magnetic signals
 - d. Wrapping the Category 6 cable around a power conductor
5. We are connecting two hubs that do not have upland RJ45 ports in our LAN. What ends will we place on the cable?
 - a. 568B and 568B
 - b. 568B and 568C
 - c. 568A and 568A
 - d. 568A and 568B
6. We have an ISP installing a fiber optic WAN connection to our LAN. They are bringing in the cable from a substation that is 10 miles away and they will splice the single mode cable twice. What techniques will they use to splice the cable?
 - a. Fission splicing
 - b. Sonic glue splicing
 - c. Powder and gel splicing
 - d. Fusion splicing
7. When pulling cable in a building, what is the minimum number of ladders to run the cable efficiently?
 - a. 3
 - b. 2
 - c. 1
 - d. 4

Building a LAN Quiz 2

8. To counter the problem of buried fiber optic cable, we
 - a. Protect the insulation from direct sunlight
 - b. Protect the insulation from animals
 - c. Protect the insulation from moisture
 - d. Protect the insulation from laser rot
9. We are working on a ladder and the safety person just wrote you up. What did you do wrong?
 - a. You were leaning sideways far from the center of gravity
 - b. You had three points of contact
 - c. You were on the top step of the ladder
 - d. You left a tool lying sideways on the top tray of the ladder
10. What type of cable goes from the switch to the router?
 - a. Crossover cable
 - b. 6 twisted pair cable
 - c. 10 twisted pair cable
 - d. Patch cable
11. Fred tests his patch cable and it does not have any LEDs lighting on the cable tester. What did Fred do wrong?
 - a. Fred holds the patch cable RJ45 connector in his hand with the locking tab away from his sight and sees white orange on the left and brown on his right
 - b. Fred holds the patch cable RJ45 connector in his hand with the locking tab away from his sight and sees white orange – orange wires on the left
 - c. Fred holds the patch cable RJ45 connector in his hand with the locking tab away from his sight and sees white brown – brown wires on the left
 - d. Fred holds the patch cable RJ45 connector in his hand with the locking tab away from his sight and sees white brown wires on the left
12. Kinks in the copper Category cable cause
 - a. Increased bandwidth
 - b. No bandwidth
 - c. Decreased bandwidth
 - d. 100% bandwidth
13. When making a 6-foot patch cable, what is most expensive in the materials list?
 - a. The wire numbers
 - b. The Category 6 cable
 - c. The 2 RJ45 ends
14. What are the two choices we have when bringing Category cable into an office?
 - a. Place the in the slab concrete floor
 - b. Mount it on the exterior of the building
 - c. Surface mount the cable on the walls from the ceiling
 - d. Pull the cable through the walls

Building a LAN Quiz 2

15. What is the order of conductors when making a crossover cable?

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |

16. What is the order of conductors when making a patch cable?

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |

17. What is the amount of spare cable calculated for each wire in a LAN

- a. 100 to 200%
- b. 50 to 100%
- c. 10 to 50%
- d. 1 to 5%

18. For WAN providers, what is the least expensive cable for providing high speed Internet?

- a. Coax cable
- b. Thicknet cable
- c. Twisted pair cable
- d. Fiber optic cable

19. Match the following optical carriers

- | | | |
|-----------|-------|--------------|
| a. OC-256 | _____ | w.40 Gbps |
| b. OC-48 | _____ | x. 2.4 Gbps |
| c. OC-786 | _____ | y. 13.1 Gbps |
| d. OC-192 | _____ | z. 10 Gbps |