

Building a LAN Quiz 3

Name: _____ Date: _____

1. We are building a LAN. What would we do prior to the installation?
 - a. Safety briefing just prior to the work being done
 - b. Check the first aid kit for 100% of supplies
 - c. Complete the ladder safety certification
 - d. Get plenty of rest and eat prior to the work period

2. A safety briefing will cover
 - a. What to do if the person receives an electrical shock
 - b. What to do if there is a fire
 - c. What to do if a person falls or has other injuries
 - d. Discusses contingency plans for evacuating an injured person

3. 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

4. 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

5. Category 6 cables are labeled
 - a. After they are tested
 - b. Prior to testing
 - c. During the testing
 - d. The day before installation

6. Fred's 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 the cable insulation under the stress relief bar

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7. 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

8. When placing a RJ45 receptacle in a wall we use
 - a. Two RJ45 category 6 plugs
 - b. RJ45 keystone jacks
 - c. Line terminators
 - d. Line filters

9. 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

10. 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

11. 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

12. 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

13. 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

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14. Kinks in the copper Category cable cause

- a. Increased bandwidth
- b. No bandwidth
- c. Decreased bandwidth
- d. 100% bandwidth

15. 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

16. What is the order of conductors when making a crossover 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. 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. Sonic glue splicing
- b. Fusion splicing
- c. Fission splicing
- d. Powder and gel splicing

19. 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

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

21. 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

22. 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 |

23. 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

24. When possible, LAN managers should _____ when installing category 6 cable.

- a. Use cable ties
- b. Lay the cable on the drop ceiling
- c. Use wireway
- d. Use cable trays

25. What government agency overlooks safety on the worksite

- a. IRS
- b. Department of Defense
- c. OSHA
- d. FBI