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1. What are two advantages of using UTP cable in a networking environment? (Choose two.)
 - a. is stiffer than STP
 - * b. is less expensive than fiber
 - * c. is easier to install than coaxial
 - d. provides longer distances than coaxial provides
 - e. is less susceptible to outside noise sources than fiber is
2. What are two advantages of using fiber-optic cabling instead of UTP? (Choose two.)
 - a. lower cost
 - b. easier to install
 - * c. allows longer distances
 - * d. less effected by external signals
 - e. easier to terminate the cable ends
3. What is the difference between a wireless NIC and an Ethernet NIC?
 - a. The Ethernet NIC operates at 100 Mbps, whereas a wireless NIC operates at 10 Mbps.
 - b. The Ethernet NIC uses a PCI expansion slot, and a wireless NIC cannot use an expansion slot.
 - c. The wireless NIC uses CSMA/CA, whereas a Ethernet NIC uses token passing as an access method.
 - * d. The wireless NIC associates to an access point, and an Ethernet NIC attaches to a hub or switch using a cable.
 - e. The Ethernet NIC attaches to a hub or a switch using only fiber cabling, and a wireless NIC attaches to a wireless antenna using air as a network medium.
4. Refer to the exhibit. The JacksCo is a small start-up company that took over an office space from another small company that closed. The older company left a room of network equipment behind. An inventory list is shown. As the newly hired network technician, you have been asked to determine which components in the storeroom would be best to use to install a small wireless LAN that currently only needs the employees to be able to share data. Note that the wireless LAN also needs to connect to an existing wired LAN. Which components should you choose?
 - a. access point and wireless NICs
 - * b. wireless NICs, access point, straight-through cables, and a switch
 - c. hub, wireless NICs, two wireless bridges, crossover cables, and an access point
 - d. wireless NICs, Ethernet NICs, a switch, an external modem, two wireless bridges
 - e. Ethernet NICs, wireless NICs, switch, hub, two wireless bridges, straight-through cables, crossover cables, and a router
5. A company is converting a cabled LAN to a wireless Ethernet LAN. What must be changed on every host on the network?
 - a. No changes are required.
 - b. Each host will require a new IP address.
 - * c. Each host will require an appropriate NIC or adapter.
 - d. Each host will require that the operating system be upgraded.
6. Refer to the exhibit. Which answer correctly identifies the pinout of the UTP cables labeled Cable A, Cable B, and Cable C?
 - a. A=straight, B=rollover, C=crossover
 - b. A=rollover, B=crossover, C=straight
 - c. A=crossover, B=straight, C=straight
 - * d. A=crossover, B=straight, C=rollover
 - e. A=straight, B=crossover, C=rollover
 - f. A=rollover, B=straight, C=crossover

7. What factors should be considered when selecting the appropriate cable for connecting a PC to a network? (Choose two.)
- a.type of system bus
 - b.motherboard model
 - * c.distance of cable run
 - * d.speed of transmission
 - e.computer manufacturer
8. Which Ethernet implementation requires the signal on the media to be boosted at a maximum distance of 100 meters?
- a.10BASE2
 - b.10BASE5
 - * c.100BASE-T
 - d.100BASE-FX
 - e.1000BASE-CX
9. When is a straight-through cable used in a network?
- a.when configuring a router
 - b.when connecting a host to a host
 - * c.when connecting a switch to a router
 - d.when connecting one switch to another switch
10. What type of cable is used to make an Ethernet connection between a host and a LAN switch?
- a.console
 - b.rollover
 - c.crossover
 - * d.straight-through
11. Which of the following are used for data communication signals? (Choose three.)
- * a.light patterns
 - * b.electrical voltages
 - c.controlled air pulses
 - d.mixed media impulses
 - e.magnetized fluid wave
 - * f.modulated electromagnetic waves
12. What does UTP cable rely on to reduce signal degradation caused by EMI and RFI?
- a.shielding
 - b.magnetism
 - * c.cancellation
 - d.insulation
 - e.properly grounded connections
 - f.RJ-45 connectors
13. Select the characteristics specified by 10BaseT. (Choose three.)
- * a.twisted pair cable
 - b.T style connectors
 - * c.baseband transmission
 - d.10 gigabits per second data rate
 - * e.10 megabits per second data rate
 - f.decimal encoded data transmission
14. Refer to the exhibit. What type of cable connects the two routers together without any intermediary device?
- a.console
 - b.rollover
 - * c.crossover
 - d.straight-through
15. Which cable connectors are used to connect a cable from a router's console port to a PC? (Choose two.)
- a.RJ-11

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- b.RJ-12
- * c.RJ-45
- d.DB-8
- * e.DB-9
- f.DB-10