

1

What are the five elements that make up the fiber-optic cable?

- ☒ core, cladding, buffer, strength material, and outer jacket
- ☐ core, cladding, kevlar, strength material, and outer jacket
- ☐ core, kevlar, buffer, strength material, and outer jacket
- ☐ aramid yarn, cladding, buffer, strength material, and outer jacket

2

In a UTP crossover cable, which pairs of pins are crossed? (Choose two.)

- ☒ 1 and 2
 - ☐ 3 and 5
 - ☐ 7 and 8
 - ☒ 3 and 6
 - ☐ 5 and 7
 - ☐ 1 and 3
-

3 ***Refer to the exhibit. Which type of Category 5 cable is used to make an Ethernet connection between Host A and Host B?***

- ☐ coax cable
 - ☐ rollover cable
 - ☒ crossover cable
 - ☐ straight-through cable
-

4

Which of the following is a characteristic of single-mode fiber-optic cable?

- ☐ generally uses LEDs as the light source
 - ☐ relatively larger core with multiple light paths
 - ☐ less expensive than multimode
 - ☒ generally uses lasers as the light source
-

5

Which method of signal transmission uses radio waves to carry signals?

- ☐ electrical
 - ☐ optical
 - ☒ wireless
 - ☐ acoustic
-

6

Which characteristics describe fiber optic cable? (Choose two.)

- ☒ It is not affected by EMI or RFI.
 - ☐ Each pair of cables is wrapped in metallic foil.
 - ☐ It combines the technique of cancellation, shielding and twisting to protect data.
 - ☐ It has a maximum speed of 100 Mbps.
 - ☒ It is the most expensive type of LAN cabling.
-

7

When is a straight-through cable used in a network?

- ☐ when connecting a router through the console port
 - ☐ when connecting one switch to another switch
 - ☒ when connecting a host to a switch
 - ☐ when connecting a router to another router
-

8

Which OSI layer is responsible for binary transmission, cable specification, and physical aspects of network communication?

- ☐ Presentation
 - ☐ Transport
 - ☐ Data Link
 - ☒ Physical
-

9

In most business LANs, which connector is used with twisted-pair networking cable?

- ☐ BNC
 - ☐ RJ-11
 - ☒ RJ-45
 - ☐ Type F
-

10

What encoding scheme does 100 Mbps Fast Ethernet use?

- ☐ Manchester
 - ☐ Differential Manchester
 - ☒ 4B/5B
 - ☐ 5B/6B
-

11

An installed fiber run can be checked for faults, integrity, and the performance of the media by using what device?

- ☐ light injector
- ☒ OTDR
- ☐ TDR

☐ multimeter

12

In which of the following situations would a crossover cable be used? (Choose two.)

- ☐ switch to router
 - ☐ switch to PC
 - ☒ router to PC
 - ☒ switch to hub
 - ☐ hub to router
-