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

* Physical

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

* OTDR

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

* It is not affected by EMI or RFI.
* It is the most expensive type of LAN cabling.

**04. When is a straight-through cable used in a network?**

* when connecting a host to a switch

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

* crossover cable

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

* wireless

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

* RJ-45

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

* generally uses lasers as the light source

**09. Which type of cable run is most often associated with fiber-optic cable?**

* backbone cable

**10. What are three measures of data transfer? (Choose three.)**

* goodput
* throughput
* bandwidth

**11. With the use of unshielded twisted-pair copper wire in a network, what causes crosstalk within the cable pairs?**

* the magnetic field around the adjacent pairs of wire

**12. What is a primary role of the Physical layer in transmitting data on the network?**

* create the signals that represent the bits in each frame on to the media

**13. In LAN installations where potential electrical hazards or electromagnetic interference may be present, what type of media is recommended for backbone cabling?**

* fiber

**14. What is a possible effect of improperly applying a connector to a network cable?**

* Data transmitted through that cable may experience signal loss.

**15. Which fiber connector supports full duplex Ethernet?**









**\* (Third one is the correct one)**

**16. What is considered a benefit of wireless as a media choice?**

* more host mobility

**17. What characteristic of UTP cable helps reduce the effects of interference?**

* the twisting of the wires in the cable