***Common copper and fiber Physical Issues***

Ethernet cables follow specifications that dictate the correct order of the individual wires in the tips of the cable. Failure to follow these specifications prevents the proper electromagnetic field from forming and shielding the wires from interference. True or false?

* True

***The Quick Way to See Interface Status***

Which command allows you to see the high-level status as well as a brief description, configured by a network administrator, of each interface on a Cisco switch?

* Show interface status

#> Show interface status

***Examining Speed and Duplex Mismatches***

If a 10/100 FastEthernet port is unable to detect speed and duplex through auto-detection methods, which settings does it use?

* Speed 100 Duplex Half

Half duplex is like walki talki you could on send one at a time

Full duplex is when both can send at the same time.

***Deep-dive into Interface Counters***

Match the interface error with its respective description:

|  |  |
| --- | --- |
| Collision | Frame with a detected collision with the first 512 bytes |
| Runts | Frames smaller than 64 bytes |
| Late collision | Frame with a detected collision after the first 512 bytes |
| Input errors | Cumulative counters of errors on the interfaces |
| Giants | Frames larger than 1500 bytes |
| CRC | Frames with errors in the FCS hash |

#> Show interface fa0/1

Runts: Frames smaller than 64 bytes

Giants: frames larger than 1518 bytes

Giant frames are larger than normal

CRC: frames where crc/fcs was wrong

Frame: frame has an illegal format

Something in the frame is incorrect. Not follow the standard format

Collision: frame collision occurred

Late collision: Collision occurred after 64 bytes

Input Error: Bad frames Received(CRC, Runts, ETC)