

Network Equipment Review

1. What unique address is given to devices such as routers, access points and network interface cards by their manufacturer?
2. What layer two network device using tables will connect two networks such as 192.168.10 and 192.168.20 using the same protocol such as TCP/IP?
3. What network device will regenerate the network signal and resend it down the next physical cable? The attenuation is caused from the extended length of the original cable and results in a distorted signal. The newly retransmitted signal can be cleaned up.
4. What network device using tables will connect two computers on the same protocol. The device typically has a minimum of 4 ports or can come with hundreds of ports. It also maintains dedicated bandwidth to every connection and it is not degraded for many links.
5. What network device will connect two computers on the same protocol. The device typically has a minimum of 4 ports or can come with hundreds of ports. The bandwidth of two linked computers on this device will be degraded as more connections are made.
6. What network device will connect two computers using two different protocols. It can connect different computers using Internet Connection Sharing (ICS) and can run on all layers of the OSI Communication model.
7. What network device will connect two computers using two different protocols. This layer three device chooses the fastest link between the two computers.
8. What type of routing table is automatically updated when a router is turned on or periodically updated.
9. What network device will connect two computers by converting digital signals to a analog signal. The receiving computer with this same type of device will convert the analog signal back to digital.
10. What is the only layer one networking device located typically on a motherboard?
11. What network device will assign an IP address to a hand held device using radio waves? If there is more than one of these devices functioning together, we will want to change the channel on two units that could overlap each other.

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12. A small wired business network with 12 computers using RJ45s and needing Internet connection would have what network devices?
13. What network devices would a coax cable technician have when installing a thinnet cable for Internet connection and the installation is over 200 meters from the main line?
14. What type of Category 6 cable would we use in an area that is prone to EMI and RFI?
15. What type of network cable would we choose for the company backbone?
16. What changes when we are making a crossover cable using Category 6 cable?
17. What network device typically located in the server room has many keystone jacks. The cables coming from other locations in the building are punched down on the back of the panel and patch cables are plugged in the front and are routed to the server room devices.
18. What network device is capable of providing power to the router, servers and switches during a power outage? Depending on battery size, the device can maintain operation for 10 to 15 minutes.
19. What is the typical mounting width of the rack or console that hold the network equipment?
20. A server farm that has redundancy would have what devices?