

COMPUTER NETWORKS-XII

(QUESTIONS & ANSWERS)

1. What Port does HTTP and HTTPS use?

Ans: HTTP uses TCP port 80 and HTTPS uses TCP port 443.

2. What is Extranet?

Ans: External users are allowed or provided with access to use the network application of the organization.

3. How can you recover the data from a system which is infected with virus?

Ans: In another system (not infected with virus) install an OS and antivirus with the latest updates. Then connect the HDD of the infected system as a secondary drive. Now scan the secondary HDD and clean it. Then copy the data into the system.

4. What protocols can be applied when you want to transfer files between different platforms?

Ans: FTP

5. What is the use of default gateway?

Ans: Default gateways provide means for the local networks to connect to the external network.

6. What happens when you use cables longer than the prescribed length?

Ans: Cables that are too long result in signal loss. This means that data transmission and reception would be affected because the signal degrades over length.

7. What common software problems can lead to network defects?

Ans:

- Client server problems
- Application conflicts

- Error in configuration
- Protocol mismatch
- Security mismatch
- User policy and rights issue.

8. You need to connect two computers for file sharing. Is it possible to do this without using a hub or router?

Ans: Yes, you can connect two computers together using only one cable. A crossover type cable can be used in this scenario. In this setup, the data transmit pin of one cable is connected to the data receive pin of the other cable and vice-versa.

9. When you move the NIC cards from one PC to another PC, does the MAC address gets transferred as well?

Ans: Yes, because MAC addresses are hard wired into the NIC circuitry, not the PC.

10. What can be done to fix signal attenuation problems?

Ans: A common way of dealing with such a problem is to use repeaters and hubs because it will help regenerate the signal and therefore prevent signal loss. Checking if cables are properly terminated is also a must.

11. Why can't wireless network detect collisions?

Ans: CSMA/CD can't be used on a wireless. Using CSMA/CD, if a collision is detected on the medium, end-devices would have to wait a random amount of time before they can start retransmission process.

12. How long is an IPV6 address?

Ans: 128 bits

13. You have 10 users plugged into a hub running 10 Mbps half-duplex. There is a server connected to the switch running 10 Mbps half-duplex as well. How much bandwidth does each host have to the server?

Ans: 10 Mbps

14. What protocol does PPP use to identify the Network Layer protocol?

Ans: NCP

15. Which protocol is used to send a destination network unknown message back to originating hosts?

Ans: ICMP

16. Which protocol does ping use?

Ans: ICMP

17. What protocol is used to find the hardware address of a local device?

Ans: ARP

18. What is hop count?

Ans: Hop count is the number of routers occurring in between the source and destination network. The path with the lowest hop count is considered as the best route to reach a network and therefore placed in the routing table.

19. How many maximum hop counts are allowed for RIP (Routing Information Protocol)?

Ans: 15.

Hop count of 16 is considered as network unreachable.

20. What is congestion?

Ans: It is a state occurring in network layer when the message traffic is so heavy that it slows down network response time.