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**SUPER 25 Question ACN**

1.Differentiate between IPv4 and IPv6.

2.Compare TCP and UDP

3.Draw and explain IPv6 protocol format

4.State the use of six flags in TCP header.

5.Describe the RIP message format

6.Describe DHCP with its operation & static and dynamic allocation.

7.Explain difference between distance vector and link state routing. (Any four points)

8.Describe the architecture of E-mail system using four scenario.

9.Differentiate between RIP and OSPF routing protocol.

10.Explain Bellman Ford algorithm with suitable example.-v.imp

11.Describe DHCP operations, when DHCP client and server on same network.

12.Explain following address types of IPv6 :

(i) Unicast address

(ii) Multicast address

(iii) Anycast address

13.Construct a suitable diagram for each below commands of FTP to show its use

(i) get

(ii) mget

(iii) put

(iv) mput

14. Explain working of world wide web (WWW).

15.List all 4 routing algorithms(in brief only with definitions)

16.Elaborate need of domain name system.

17. From below list, explain any two different transition method from IPv4 to IPv6.

(i) Dual stack

(ii) Tunneling

(iii) Header translation

18. Explain the working of TELNET.

19.Distinguish between SMTP and POP3 protocol.(4 points each)

20.Enlist any two services offered by UDP.

21. The dump of UDP header in hexadecimal format is as follows :

BC82D00D002B001D

obtain the following :

(i) Source port number

(ii) Destination port number

(iii) Total length

(iv) Packet direction

22.Describe packet format of IPv6.

23. Describe the architecture of E-mail system using four scenario.

24.Explain the process of resolving the given host name into IP address using DNS.

25. Explain how TCP connections are established using the 3 way handshake. What happens when 2 hosts simultaneously try to establish a connection ?