



GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY

KNOWLEDGE PARK II, GREATER NOIDA

Department of Computer Science and Engineering

Muddiest Point Approach:

Following are the muddiest points collected from the students that are discussed later.

Operating System

1. What is the purpose of an operating system?
2. Advantages of a multiprocessor system?
3. What is kernel?
4. How kernel works?
5. Application of Real Time System
6. How data can store in Virtual memory?
7. How a system can access the data from Virtual memory?
8. What is the objective of multiprogramming?
9. How switching the jobs work in time- sharing system?
10. What is Symmetric Multi-Processing?
11. How an identical copy of Operating system runs over Multi Processing?
12. How Interface made possible in server system?
13. What is asymmetric clustering?
14. What is Thread?
15. What are the difference between threads and processes?
16. What is Multi threading Programming?
17. Advantages of Multi Threading Programming?
18. What are the drawbacks of FCFS?
19. How a circular queue can setup in RR scheduling?
20. What are necessary conditions which can lead to a deadlock situation in a system?
21. What factors determine whether a detection-algorithm must be utilized in a deadlock avoidance system?
22. What are the applications of Banker's algorithm?
23. How we can differentiate Logical address space and Physical address space?
24. How does dynamic loading aid in better memory space utilization?
25. Describe the functionality of paging.



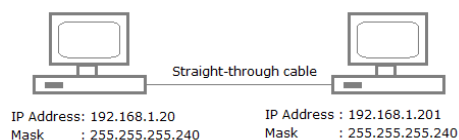
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Networks Questions

1. What is the difference between Hub, Switch, and Router?
2. Difference between usage architecture of http and https?
3. What is a Proxy Server and how do they protect the computer network?
4. What is meant by 127.0.0.1 and local host?
5. What are ip-config and if-config?
6. In which scenario wi-max is better than wi-fi?
7. Explain Beaconing in FDDI?
8. How can a network be certified as an effective network? What are the factors affecting them?
9. How does a network topology affect your decision in setting up a network?
10. What protocol can be applied when you want to transfer files between different platforms, such between UNIX systems and Windows servers?
11. One way of securing a network is through the use of passwords. What can be considered as good passwords?
12. What common software problems can lead to network defects?
13. When you move the NIC cards from one PC to another PC, does the MAC address gets transferred as well?
14. In a network that contains two servers and twenty workstations, where is the best place to install an Anti-virus program?
15. When troubleshooting computer network problems, what common hardware-related problems can occur?
16. How does dynamic host configuration protocol aid in network administration?
17. what is the use of a default gateway?
18. Describe Attenuation, Distortion, And Noise In Brief?
19. Your router has the following IP address on Ethernet 0: 172.16.2.1/23. Which of the following can be valid host IDs on the LAN interface attached to the router?
20. A network administrator is connecting hosts A and B directly through their Ethernet interfaces, as shown in the illustration. Ping attempts between the hosts are unsuccessful. What can be done to provide connectivity between the hosts?



- a. A crossover cable should be used in place of the straight-through cable.
 - b. A rollover cable should be used in place of the straight-through cable.
 - c. The subnet masks should be set to 255.255.255.192.
 - d. A default gateway needs to be set on each host.
 - e. The subnet masks should be set to 255.255.255.0.
21. Which protocol reduces administrative overhead in a switched network by allowing the configuration of a new VLAN to be distributed to all the switches in a domain?
22. Which layer 1 device can be used to enlarge the area covered by a single LAN segment?
23. You have a Cisco mesh network. What protocol allows multiple APs to connect with many redundant connections between nodes?
24. A network administrator needs to configure a router with a distance-vector protocol that allows classless routing. Which protocol suits best in satisfying these requirements?
25. If you configure the following access list what will be the result of following access list?

```
access-list 110 deny tcp 10.1.1.128 0.0.0.63 any eq smtp
access-list 110 deny tcp any eq 23
int ethernet 0
ip access-group 110 out
```