

CISCO SYSTEMS

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Written test-

50 questions in 60 mins.

consists of 20 aptitude questions (logical + 3-4 quant),

20 (co + microprocessor + de),

10 (easy questions on c ,ds, os ,networking).

FIRST INTERVIEW (Technical)-

duration – approx 1hr.

- 1) Tell me about yourself.
- 2) What subjects did you studied in 5th and 6th sem.
- 3) Describe the OSI model in detail.
- 4) Use of session and presentation layers.
- 5) Reverse nibbles(4 bits) of a byte.
Suppose the input is 1000 0101
output 0001 1010.
write a program for the same.
- 6) Write a program to implement circular linked list.
- 7) Which sorting algos do you know, Write pseudo code for selection sort.
- 8) What you have studied in operating systems. What is a real time OS.
- 9) Mention some scheduling techniques , amongst them he want me to classify them into 2 categories preemptive and non preemptive techniques.
- 10) What causes a preemption.
- 11) Name some system calls , what is file descriptor.
- 12) What is i-node.
- 13) What is virtual memory and when do we use it.
- 14) What are ping and traceroute commands.
- 15) Difference b/w hub ,switch and router.
- 16) When you type name of a website in your browser what happens.
- 17) 3 way handshaking.

SECOND INTERVIEW(Technical+ 2-3 hr ques at the end) duration – approx 40 mins.

- 1) You are given a singly linked list having 2n nodes. You have to make n lists(each containing 2 nodes) from the original list in the following order.
1st list contains 1st and last node.
2nd list contains 2nd and 2nd last node.
3rd list contains 3rd and 3rd last node and so on.
Write c code for it.
- 2) What is the difference b/w inline functions and macros.
- 3) What are sockets ? Name various inter-process communication techniques. Have you programmed before using any of them.
- 4) Which OS are you familiar with(i said linux). He asked me to implement client and

server side of a TCP connection which can be used to transfer a file(i said I don't know the syntax of the calls), he then only want the name of the calls which are used at both sides to implement TCP.

- 5) Can we use ARP requests to find out the addresses of the hosts outside the subnet. What is proxy ARP and gracious ARP.
- 6) A king has given a job to his slave(a computer programmer) to observe all the crows in his territory. Anytime the king can query about the 10 oldest crows in the territory. Slave can find out the age by just looking at the crow. On focusing the query by the king which data structure the slave should select to optimize the problem.
- 7) What is the basis of selection of data structures when you program. Under what situations you will use an array , a linked list , a BST and a heap.
- 8) What you want to choose as a job profile a developer or a testor(i said developer). He asked why. Have you done testing before . Have you use a debugger.

THIRD INTERVIEW-(HR)

duration 15-20 mins.

Basic HR questions

What you consider as your achievements.

Why this company.

Have you applied for any previous companies if yes which were they.

You just want a job or do you have have interest in certain field.

Future study plans.

Apart from studying and hobbies what do you do .

He was quite clever cross questioning quite a lot.....

THATS IT

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