THERE ARE TWO ROUND OF WRITTEN.

IN THE 1ST ROUND it was objective which consists of 6 sections AND EACH SECTION HAS 5 QS. Duration 1hour

1ST SECTION:( DATA STRUCTURE)

1. question from binary search tree ans(250)  
2.    
3. hash table problem ans(5)  
4. adjacent matrix to calculate shortest path ans(7)  
5.

2ndSECTION (C LANGAUGE)

1 what is int(\*(\*ptr (int))(void)  
2. recursion to find the value of GET(I don't remaember the digit but it is 2 arguments    (ans 6)  
3.  
4 recursion function to calculate fun(4,9)( ans e)  
5 problem from strcmp

3rd SECTION(O.S)

1.  
2 string reference is given calculate the page fault based on LRU (ans:3 or 6)  
3cache hit ratio numerical (ans 98%)  
4 ans 360 (but I am not sure)  
5

4TH SECTION(DBMS)

1. query is given  based on table employ(eno,name,salary..),workl(eno,.),project(pno,..)  
select eno from employ where eno in(select eno from workl groupby eno where count(\*)=(select count(\*) from project))  
2.select eno from emply where salary=salary  
3.which is not required in trascation  
options are (a).atomicity (b)isolation (c)normalization (d)concerrancy  
4.  
5

5TH SECTION(TOC)

1.      one transtion state is given identify the grammer it accept  
1             
2.                                            0  
0                         1                       1,0  
option are( a)    (10)\*    (b) string starting from 1 (c) ) string starting from 0  
(d) 1\*0\*

2.totolagy ans(b)  
3  
4  
5 S->1S1  
S->00  
S->11  
S->0S0  
Option are (a) 00100100 {b) 110010001(c) I don't remember

6th SECTION (GENERAL COMPUTER)

1  
2. difference between packet swiching and circuit swiching  
3.      what is the probiblity of the occurance of 7 beetween 0 and 999 ans(18/25)  
4.      ans (360)  
5.      ans (37000)

SECOND ROUND (OF 1HOUR) (VERY VERY TOUGH)

TWO C PROGRAMS ARE GIVEN

Q1. U have to write the function for matrix addition using link list.

It is called "sparse matrix" .The structure for the element is as follows.

Typedef struct element{  
Int row;  
Int column;  
Int value;  
Element \* next;  
}element,sparsematrin\*;

If value contains zero then there should not be node assign for that.U have to also check boundary condition in your program.

Function is:  
SparseMatrix SmAdd(SaprseMatrix m1,SparseMatrix m2)  
( Revised concept of linked list and have a look at coding..)

Q2.Problem:-

One boy has to climb steps. He can climb 1 or 2 steps at a time.  
Write a function that will returns number of way a boy can climb the steps.  
Int WaytoSteps(int n)  
(eg:- suppose number of steps is n=4 ,the function will return 5

(one-one-one-one ,one-one-two, one-two-one-,two-one-one, two-two)  
second round is vey important for getting selected.