NCR Corporation Model Paper

Q1.

```
static int i;
{
i=10;
...
}
printf("%d",i);
```

ANS: 10

Q2.

```
#define func1(a) #a
#define func2(a,b,c) a##b##c
printf("%s",func1(func2(a,b,c)))
```

ANS: func2(a,b,c)

Q3.

```
const int* ptr;
int* ptr1;
int a=10;
const int p=20;
ptr=a;
ptr1=p;
```

Q4.

```
class a
virtual disp()
{ printf("In a");}
class b:public a
```

```
disp()
{ printf("In b");}
class c:public a
disp()
{ printf("In c");}
main()
{
a obj;
b objb;
c objc;
a=objb;
a.disp();
a=objc;
a.disp();
```

ANS: "In a" "In a"

Q5.

```
a="str";
char *b="new str";
char *temp;
malloc(sizeof(temp)+1,....
strcpy(a,temp);
malloc(sizeof(b)+1,....
strcpy(temp,b);
```

Q6.

```
int m,i=1,j=0,k=-1;
m=k++||j++&&i++;
printf("%d...",m,i,j,k);
```

Q7.

```
class x
```

```
{
double b;
double *l;
float &c;
}
main()
{
double g=10.34;
double *f=1.3;
float k=9;
x o;
o.b=g;
o.l=f;
o.c=k;
}
```

ANS: Compiler Error

Q8. Find the Kth smallest element in a Binary Tree.

Q9. Each worker does a job and is given a rating +ve,-ve or Zero.

Find the Max SubSequence Sum for given no. of workers.

Ex: Workers=6; Ratings={1,0,-1,4,5,-3}

MaxSubSequenceSum=4+5=9 (5 Marks)

Q10. 1 to N ppl sitting in a circle. Each one passes a hot potato to the next person. After M passes the person holding the potato is eliminated. The last person remaining is winner. Find winner for given N,M.

Ex: N=5, M=2, Winner=4 (5 Marks)

Q11. Reverse a given Linked List. (5 Marks)

Q12. There is a file called Knowledge Base.txt which contains some words. Given a sub-string u have to find all the words which match the word in the file.

Ex: file contains a, ant, and, dog, pen. If I give "an" I should get o/p as "ant, and"