

NCR-Teradata Sample Paper

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Company : NCR-Teradata
Date :
College :

1.

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

Ans: 10

2.

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

Ans: func2(a,b,c)

3.

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

```
ptr=a;  
ptr1=p;
```

4.

```
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"

5.

```
a="str";  
char *b="new str";
```

```
char *temp;
```

```
malloc(sizeof(temp)+1,....  
strcpy(a,temp);  
malloc(sizeof(b)+1,....  
strcpy(temp,b);
```

6.

```
int m,i=1,j=0,k=-1;
```

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

7.

```
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

Write C/C++ code for following:

For all the probs, u will have decide on wht DS to use.... and u'r program must be efficient...explain in detail...

5 MARKS

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

5 MARKS

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

Find the MaxSubSequenceSum for given no. of workers.

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

MaxSubSequenceSum=4+5=9

5 MARKS

3. 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

4. Reverse a given Linked List.

5 MARKS

5. There is a file called KnowledgeBase.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"

10 MARKS

6. Company employee have id,level,no. of sub-ordinates under him...

If a emp leaves then his sub-ordinates are assigned to any of the emp's seniors...

Write four functions:

ConstructEmployee

JoinEmp

LeaveEmp

TransferEmp