

## 1<sup>st</sup> section

/\* This section is damn ..tough, lengthy and time consuming. It is highly recommended to leave this section or set aside to last. I am quoting some part of this question so you can easily identify this section..

\*/

It is based on recursive function.....

$M(a,b,c)$ -  $L(a)$  is if u delete 1st element from it whatever is left.

$N(a,b,c)$ - $L(b)$  is 1st element of the list.

if  $(a,b)$  &  $a$  r two lists then  $M(l_1,l_2)$  is  $((a,b),a)$ .

$X(a,l)=a$

$=L(a)$

$=M(a,l)$

$y(a,l)=l$

$=L(b)$

$=M(l,a)$

Based on this they gave 8 questions were there....

## 2<sup>nd</sup> section

This is about arrangement of dominos

6 Dominos are given ...

Also a figure created using these is also shown. But the alignment of the dominos in the figure is unknown. The question is to find out the possible alignment of the dominos.

1
2

1
3

2
3

1
1

2
2

1
2

1	1	2
2	3	3
1	2	1
1	2	2

The multiple choices some what look like this....

a)

	3	
	2	

b)

1		
1		

c).....d).....

What they mean is....if the columns with no.s shown in the figure, forms a single domino, is it possible to make the figure given in the question using the remaining dominos given ?

In this example I arranged the dominos from left to right , top to bottom .  
The answer is b.

This forms 1 question.Likewise 8 questions in this section.

### 3 rd section

/\*This section is the easiest. Ou better start with this section\*/

This section consists of encoding decoding questions...

Eg:- 1) if abacbb corresponds to bbcaba  
& acbbca acbbca  
then baabcb ?

ans-bcbaab.(Read the string in reverse)

2) if abcbac corresponds to bcbaca  
& acbacb                      cbacba  
then abcabc                      ?

ans-bcabca.(Rotate the string left by 1 letter)

Like wise 8 questions...

#### 4 th section

/\*This is also an easy one\*/

Finding the valid string..

Eg:- 1) if  $x G 0 0 y G$   $y$  is a string  
where  $x,y$  are variables which forms strings of  $G$  and contains atleast  
1 letter.Then which of the following is a valid string of the same language.

- a)  $G G 0 0 G G G G G$
- b)  $G G 0 0 G G G G$

What they mean is that  $x$  and  $y$  should be substituted using a consistent value in all the places.

In (a) I put  $x=G$ ,  $y = G G$ .

In (b)  $x=G$  , but the 1<sup>st</sup> occurrence of  $y$  is  $G$  and 2<sup>nd</sup> one is  $G G$ .

So inconsistent ...hence answer is (a)

In some case it may create ambiguity while we substitute the values of  $x,y$ .  
Sufficient clues will be given in the question to handle this.

#### 5 th section

/\*Time consuming\*/

## **Anagrams....**

Eg:- 1) P \_ \_ S \_ \_ D \_

a) utopian b)convince c)pervade

What they mean is , to find the partiular synonym of the words given, that fill correctly in the blanks...!!

ans- convince.-persuade.

2) PERVERSE

3) DECADENT.

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