GEORGE SUMMERS puzzle books are suggested.

INFOSYS TECHNOLOGIES LIMITED.

Question Paper

Part 1.

(1) 9 cards are there. u have to arrange them in a 3*3 matrix. cards are of 4 colors.they are red,yellow,blue,green. conditions for arrangement: one red card must be in first row or second row.2 green cards should be in 3rd column.Yellow cards must be in the 3 corners only. Two blue cards must be in the 2nd row. Atleast one green card in each row.
Solution:

Yello	Red	Gren
Blu	Blu	Gren
Yello	Gren	Yello

2. 4 cards are placed on a table, each card has two colors. U don't know the color of the back side of eachcard.4 persons A B C and D are sitting on the table before the cards. They can see Red, Green Red and blue .Out of the 4 poeple 2 always lie. They see the color on the reverse side and give the following comment
A: Yello/green
B: Neither Blue/nor Green
c: Blue/Yello
D: Blue/ Yello
find out the color on the other side of the 4 cards.

3.Red and brown tribes [FROM BARRONS GRE] Conditions to get married with each other.

4. Venn diagram regarding Rich, muscular, soft-skinned, employed, etc.,(Refer BARRONS GRE GUIDE)

PART 2.

1. SAKUNTALA DEVI'S PUZZLE BOOK : PUZZLES TO PUZZLE YOU.
   problem no: 3. (Brothers and Sisters)
   A family I know has several children. Each boy in this family has as many sisters as brothers but each girl has twice as many brothers as sisters. How many brothers and sisters are there?
   ans: 4 boys and 3 girls.
2. No. of animals is 11 more than the no. of birds. If the

no. of birds were the no. of animals and no. of animals were the no. of birds(ie., interchanging no.s of animals and birds.), the total no. of legs get reduced by one fifth (1/5). How many no. of birds and animals were there?
ans: birds:11,animals:22

3. In a soap company a soap is manufactured with 11 parts. For making one soap you will get 1 part as scrap. At the end of the day u have 251 such scraps. From that how many soaps can be manufactured? ans: 22 + 2+ 1 = 25.

4.
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       2 * *            |
       3 * *            | No. 7 does not occur in this
 ---------------        |
       5 * *            | multiplication.
     * 4 *              |
   * * 3                | Find the product.
 ---------------        |
   * * * * *            |
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ans
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   2 8 1
   3 2 2
   -----
   5 6 2
 5 6 2 0
8 4 3 0 0
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9 0 4 8 2
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5. There is a 5digit no. 3 pairs of sum is eleven each.
Last digit is 3 times the first one.
3 rd digit is 3 less than the second.
4 th digit is 4 more than the second one.
Find the digit.
ans : 25296.

6. There are five thieves, each loot a bakery one after the other such that the first one takes 1/2 of the total no. of the breads plus 1/2 of a bread. Similarly 2nd, 3rd,4th and 5fth also did the same. After the fifth one no. of breads remained are 3. Initially how many breads were there?
ans : 31.

7.ESCALATOR PROBLEM OF SAKUNTALA DEVI 'PUZZLES TO PUZZLE'book.
Problem No: Problem 27(Down the escalator)
ans : the no of steps in the stair way : 46.

8.Harbour line and Main line Problem of Sakuntala Devi Puzzle
book. Ans : 4/5.
(More Puzzles book)

9.There are some chicken in a poultry. They are fed with corn
One sack of corn will come for 9 days.The farmer decides to
sell some chicken and wanted to hold 12 chicken with him.
He cuts the feed by 10% and sack of corn comes for 30 days.
So initially how many chicken are there?

10.Two people X & Y walk on the wall of a godown in opposite
direction. They meet at a point on one side and then go
ahead. X after walking for some time, walks in opposite
direction for 15 mtrs.Then again he turns back and walks
in the original direction. What distance did Y walk before
they met again, if X walks 11 mtrs by the time Y walks
8 mtrs.

11.Problem from SAKUNTALA DEVI 'PUZZLES TO PUZZLE U'.
Problem no: 23(Walking back to happiness.)
The walking time : 55 mins.

With this The paper has been completed. For the lack time I have'nt typed those probs, which are in Sakuntala Devi Puzzle books. I wish all of you the best.
Send me the mail immediately after the written test will be over. thank you.

-Sarma. B. Y.

The Questions are follows

1. Number of null pointers in any binary tree = n+1

2. max(t1,t2,...tn) = pipelining

3. 50% -DBETXXXXXX - density

4. print (Head(T))
   Traverse(left(T))
   print (Head(T))
   Traverse(right(T)) - ans: none of the above

5. Boolean expn Evalvate

6. Common subexpn : - ans : a + e

7. LRU : 1, 2, 3.

8. Tr. Delay - 10000 bits ans. 10.01

9. Grammar of Number of shift / reduce operator : ans. 4

10. CPU scheduling 9,8 ?

11. if even x/2
    else p(p(3x+1))

   2^k + 1: 3 . 2^(k-1) clarify this with sans

12. allocation ans: (ii) only

13. swapping : ans: reference only

14. Compiler - related Qn.

15. LAN frames - ? related Qn.

16. parameter passing (35,20)

17. sliding window protocol
        - BUFFER SIZE large

18. kernel mode - deallocate resource

19. logic circuit
     ans . Minimum OR = 3

20. Combinatorics related

21. priority scheduling

22. cobegin
      begin x = y; x= x+1; y= x
      begin x =y; z= z+1; y= z
    coend

   ans. Number of values possi = 2

23. 2 bits flip / 2 bits exchange

     ans : the word with one '1'

24. any addr
     K^+ v(a) + 2I - 2a

clarify with SANS.