

Infosys (Paper)

The Questions are follows:

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

2. $\max(t_1, t_2, \dots, t_n)$ = 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 address

$K^+ + v(a) + 2I - 2a$

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Submitted by guru on Fri, 2007-11-16 16:27. [Alerts](#) | [INFOSYS](#) | [Pattern](#) | [PAPER](#)

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***GEORGE SUMMERS** puzzle books are suggested.

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. (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: $22 + 2 + 1 = 25$.

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 5th 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.

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.

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[Question Paper](#)

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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.

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[\(Paper\) Nov 27th Infosys Test Paper](#)

Question # 1

Complete the series :

- a) 3,6,13,26,33,66,____(repeated from previous papers)
b) 0,2,4,6,8,12,12,16,_____

Ans : a) 63

Question # 2

Three persons A, B & C went for a robbery in different directions and they theft one horse, one mule and one camel. They were caught by the police and when interrogated gave the following statements

- A: B has stolen the horse
B: I didn't rob anything.
C: both A & B are false and B has stolen the mule.

The person who has stolen the horse always tell the truth and
The person who has stolen the camel always tell the lie.

Find who has stolen which animal?

Ans:

A- camel

B- mule

C- horse

Question # 3

Four people - A,B,C,D
Four cards painted on both sides not with same color
Four cards r placed on a table in front of 4 people
Four cards have no visible or hidden color in common
After seeing their respective cards and their hidden colors they make the following statements about their hidden colors.
A Green or red
B Neither green nor red
C Blue or Yellow
D Yellow or blue
Exactly 2 of them are lying, what r the visible and hidden colors of

all the 4 people.

Ans:
A & D were lying.

Question # 4

3 Marks

A man walks at 4 km/hr on plain, then at 3 km/hr uphill and then returns through the same road at 6 km/hr downhill and at 4 km/hr on the plain. It takes altogether 6 hours. So what distance he covered in one way?

Ans: 12 km

Solution: Let plain road = x km
And hill road = y km
? $x/4 + y/3 + y/6 + x/4 = 6$
? $x/2 + y/2 = 6$
? $x + y = 12$

Question # 5

similar problem but not the same

A, B, C, D & E are having their birthdays on consecutive days of the week not necessarily in the same order. A's birthday comes before G's as many days as B's birthday comes after E's. D is older than E by 2 days. This time G's birthday came on Wednesday. Then find the day of each of their birthdays?

Ans:
Birthday of D on SUNDAY
Birthday of B on MONDAY
Birthday of E on TUESDAY
Birthday of G on WEDNESDAY
Birthday of A on THURSDAY

Question # 6

A lady was out for shopping. she spent half of her money in buying A and gave 1 dollar to bagger. futher she spent half of her remaining money and gave 2 dollar to charity. futher she spent half of remaining money n gave 3 dollar to some childrans. now she has left with 1 dollar. how much she had in the beginning?

Ans \$42

Question # 7

There were 4 boys playing a game in which the person who is the strongest would win. The 4 boys were tom, hank, bill & Joe. Hank could pull bill & Joe with some effort. Hank & bill together could just hold Joe and tom (i.e., neither could pull each other). But when hank & Joe interchanged their places,

bill and Joe could be easily pulled. Who is the strongest?

ANS: T>H>B>J

Question # 8

A person is prisoned for 60 days . In that 60 days he earns rs.170.If he works he will get rs.7 per day. If he not works Rs.3 he should pay to that prison.Find out how many he worked.

Ans: 35 days

Question # 9

6. (Some conditions were given, but may not be exactly the same.)
- i. A&B, who can speak English, have common language with E as Spanish.
 - ii. Common language for B&E is French.
 - iii. A, C&E can speak Italian.
 - iv. D&E have common language as Portuguese.
 - v. Portuguese is known by at least 3 persons.

There is only one person who knows all the 5 languages, only one who knows 4 languages , only one who knows 3 languages, only one who knows 2 languages and only one who knows exactly one language.

Based on the conditions, 4 questions were given. (Options were also not the same, I've given just for model.)

1. A Knows

- i. English, Spanish, Portuguese
- ii. French, English, Spanish
- iii. French, Italian, Spanish.

2. E knows

- i. French, Portuguese
- ii. English, Spanish, Portuguese
- iii. Italian, Spanish, French

3. B knows

- i. Spanish, French
- ii. English, French, Italian
- iii. Portuguese, English, French, Spanish.

4. C Knows

(and some options)