Infosys Sample Paper

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Company : Infosys
Date :
College :

1)A,B,C,D,E related.4 of them made these statements each.
i)C is my son in law's brother.
ii)B is my father's brother.
iii)E is my mother in law.
iv)A is my brother's wife.
who made these statements?(person mentioned is one of A,B,C,D,E)(10 marks).

2)e means belong.
All members of E e D.
All members of D e A.
Not all members of D e E.
Not all members of A e D.
All members of C e both A and B.some questions are asked about relation.use venn diagram.(5 marks).

3)complete the table.

	Played	won	lost	draw	goals for	goals against
A	2	2				1
B	2		1		2	4
C	2				3	7

A,B,C are 3 hockey teams.(2 marks).

4) A says Party was held on :Thursday ,May 8th.
B says Party was held on :Tuesday,May 10th.
C says party was held on :Friday ,June 8th.
Given April 1 st was Tuesday.one of A,B,C says 1 correct.one says 1 wrong.and one was completely wrong of date,Month and day. Find the Day the party held. (5marks).

5) A ship is away from the shore by 180 miles.A plane is travelling at 10 times speed of the ship.How long from the shore will they meet? (2marks)

6) Every station in N railroad issue everyother station's ticket.
some stations are added.Now they have to issue 46 more tickets.
say the No.of stations after and before added.(5 marks).

7) 3 persons say these statements.
A says either Democratic or liberal wins the elections.
B says Democratic wins.C says neither democratic nor liberal wins
the election.of these only one is wrong.who wins the election?
(5 marks).

8) A clock showing 6 o'clock takes 30 secs to strike 6 times.How long
will it take to strike 12 at midnight?

Ans.66 secs.(2marks)

9) Only boys aged > 16 wear coats.
Boys aged > 15 go to watch football.some more statements are given.
What can be said about those who are watching football ? (age and
costume)
(5 marks).

10) There are 3 societies A,B,C having some tractors each.
A Gives B and C as many tractors as they already have.
After some days B gives A and C as many tractors as they have.
After some days C gives A and B as many tractors as they have.
Finally each has 24 tractors.what is the original No.of
tractors each had in the beginning?

Ans.A -39.
B- 21.
C- 12.(7 marks).
11) 4,5 statements.From that find the

answer.(7 marks).

Reference books
1.) Puzzles and teasers by summer's
2.) Shakuntala Devi. (puzzles).

PART I
2. ans: in north and south directions
1/2 - 1/8 + 1/32 - 1/128 + 1/512 - and so on
= 1/2/((1-(-1/4))
similarly in east and west directions

1- 1/4 + 1/16 - 1/64 + 1/256 - and so on
= 1/((1- (- 1/4))
add both the answers

3. Ans 2 power 9 x 5 ppower 9 (check the answer)

4. ans 2 and 3 and 6
5. ans : 383 + 1 = 384
6. ans A
7. ans RS 250/-
8. Ans : total no of balls = 89 and (89-29 /2 = 60/2 = 30
and also 14 + 16 = 5 + 7 + 18 = 30
9. Ans : 2.
10. Ans : 18 or 19

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INFOSYS
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1) There are two balls touching each other circumferencically. The radius of the big ball is 4 times the diameter of the small ball.The outer small ball rotates in anticlockwise direction circumferencically over the bigger one at the rate of 16 rev/sec. The bigger wheel also rotates anticlockwise at Nrev/sec. what is 'N' for the horizontal line from the centre of small wheel always is horizontal.

2)
```
  1 2 3 4
+ 3 4 5 5
----------
```

```
  4 6 8 9
- 2 3 4 5
----------
  2 3 4 4
+ 1 2 5 4
------------
  3 6 9 8
```

Q) Strike off any digit from each number in seven rows (need not be at same place) and combine the same operations with 3 digit numbers to get the same addition. After this strike off another digit from all and add all the No.s to get the same 2 digit No. perform the same process again with 1 digit No.s. Give the ' no.s in 7 rows at each stage.

3) there is a safe with a 5 digit No. The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit. The 1st digit is thrice the last digit. There are 3 pairs whose sum is 11. Find the number. Ans) 65292.

4) there are 2 guards Bal and Pal walking on the side of a wearhouse(12m X 11m) in opposite directions. They meet at a point and Bal says to Pal " See you again in the other side". After a few moments of walking Bal decides to go back for a smoke but he changes his direction again to his previous one after 10 minutes of walking in the other(opposite) direction remembering that Pal will be waiting for to meet.If Bal and Pal walk 8 and 11 feet respectively, how much distance they would have travelled before meeting again.

```
5)      xxx)xxxxx(xxx
          3xx
          -------
           xxx
           x3x
           ------
            xxx
            3xx
            ------
```

Q) Find the 5 digit No.
Hint: 5 is used atleast once in the calculation.

6) Afly is there 1 feet below the ceiling right across a wall length is 30m at equal distance from both the ends. There is a spider 1 feet above floor right across the long wall eqidistant from both the ends. If the width of the room is 12m and 12m, what distance is to be travelled by the spider to catch the fly? if it takes the shortest path.

7) Ramesh sit around a round table with some other men. He has one rupee more than his right person and this person in turn has 1 rupee more than the person to his right and so on, Ramesh decided to give 1 rupee to his right & he in turn 2 rupees to his right and 3 rupees to his right & so on. This process went on till a person has 'no money' to give to his right. At this time he has 4 times the money to his right person. How many men are there along with Ramesh and what is the money with poorest fellow.

8)Question related to probabilities of removing the red ball from a basket,given that two balls are removed from the basket and the other ball is red. The basket contains blue,red,yellow balls.

9)Venkat has 1boy&2daughters.The product of these children age is 72. The sum of their ages give the door numberof Venkat.Boy is elder of three.Can you tell the ages of all the three.

ANALYTICAL

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1)L:says all of my other 4 friends have money
M:says that P said that exact one has money
N:says that L said that precisely two have money
O:says that M said that 3 of others have money.
P:Land N said that they have money.
all are liers.Who has money&who doesn't have?

2)A hotel has two,the east wing and the west wing.some east wing rooms but not all have an ocean view(OV).All WW have a harbour view(HV).The charge for all rooms is identical, except as follows
* Extra charge for all HV rooms on or above the 3rd floor
* Extra charge for all OV rooms except those without balcony
* Extra charge for some HV rooms on the first two floor&some EW rooms without OV but having kitchen facilities. (GRE modrl Test 3-question 1J-22)

3)Post man has a data of name surname door no.pet name of 4 families. But only one is correct for each family.There are a set of statements &questions.
4)4 couples have a party.Depending on the set of statements,find who insulted whom and who is the host of the party.
5)5 women given some of their heights(tall,medium,short)Hair(long, plainted),stards(Black or Brown), sari,2 medium,2-short.Tall->no sari.Plainted->medium.Answer the combinations.

1) A person has to go both Northwards&Southwards in search of a job. He decides to go by the first train he encounters.There are trains for every 15 min both southwards and northwards.First train towards south

is at 6:00 A.M. and that towards North is at 6:10 .If the person arrives at any random time,what is the probability that he gets into a train towards North.

2) A person has his own coach&whenever he goes to railway station he takes his coach.One day he was supposed to reach the railway station at 5 O'clock.But he finished his work early and reached at 3 O'clock. Then he rung up his residence and asked to send the coach immediately. He came to know that the coach has left just now to tje railway station. He thought that the coach has left just now to the railway station.He thought that he should not waste his time and started moving towards his residence at the speed of 3mi/hr.On the way,he gets the coach and reaches home at 6 o'clock.How far is his residence from railway station.

3)Radha,Geeta&Revathi went for a picnic.After a few days they forgot the date,day and month on which they went to picnic..Radha said that it was onThursday,May 8 and Geeta said that it was Thursday May 10.Revathi said Friday Jun 8.Now one of them told all things wrongly,others one thing wrong and the last two things wrongly.If April 1st is tuesday what is the right day,date and month?

1. A person was collecting end pieces of Cigerettes. He was managed to collect 49 pieces. We need 7 such pieces to make new one. So how many Cigerettes he can make? (2 marks)

2. A person moving from a place(camp)., towards East one mile, then towards North half mile, towards West 1/4 the mile, towards South 1/8th mile and again towards East 1/16th mile and so on. That is the distance between him and the starting point. (3 marks)

3. 500 men were arranged in 10 rows and 50 columns. They picked the oldest person from each row and the tallest of these persons is 'A'. They replace them in their places and again picked tallest person from each column and the shortest of these persons is 'B'. Assume A & B are different people. Who is the tallest person among A & B? (5 marks)

4. The product of two nonzero numbers is 1,000,000,000. What are the

numbers ? (5 marks)

5. There is Mathematician. He met his friend and asked about his children. His friend told in the form of a problem that he has three children. The product of their ages is 36. The addition of their ages is the door number of his left side house. Mathematician went and checked the door number He told that the clues are not sufficient. He gave another clue that is his younger daughter is clearly younger. What are their ages ? (6 marks)

6. There is a light glows in the interval of 13 sec. It glows first at one hour 54 minutes 50 seconds and the last glow is at 3 hour 17 minute and 49 seconds. How many times is that light glow, with in these two times ? (2 marks)

7. After spending 1/3 of money and then 1/4th of what remained and finally 1/5th of what remained, I found that I had Rs.100/- left. How much money I had at first ? (3 marks)

8. A Black Smith was given a chain torn into equal sections of 3 links each and asked to fix it. How many links(minimum) would he has to open up and reforge ? (1 mark)

9. There are six boxes, of which some boxes contain only red balls and some other boxes contain only Black balls. The number of balls in six differnet boxes are 5,6,12,14,23,and 29. If he sells

Another Set:
****

1. 1/3rd liquid in a container evaporates in first day. In the second day 3/4th remaining avaporates. How much is left over at the end of second day ?

2. first person : I am sure you are at least 40 years old and I am 5 years younger than you.
second person : I am 35 and you are atleast 5 years elder than me. None of these persons spoke truth. What are their ages ?

3. Orange cup has Orange Juice. White cup has apple Juice. %0 ml of Orange Juice is taken and mixed with Apple Juice. From that mixture 50 ml is taken and poured into Orange cup. Now whether apple Juice in Orange Cupis more or Orange Juice in White cup is more and by what amount?

4. Ms. Sheela goes her home by car from Station. Her driver comes and picks her up daily at 5.00 p.m. One day Sheela arrives at Station

one
hour earlier and starts walking towards home. On the way driver picked her up. By this they reached home 30 minutes earlier. For how long she was walking ?

5. Some students went on a trip to Goa in holidays. Unfortunately it rained on some days. In a surprising manner if it rained in the morning, they had a good afternoon and vice versa. They had 11 morning visits and 12 afternoon visits. Altogether it rained for 13 days during their stays. What is the duration of Holidays ?

6. A survey was conducted for 100 people by Door Darshan
1. 44 people watched channel I
2. 43 " " " II
3. 27 " " " III
4. 17 " " " I & II
5. 14 " " " I &III
6. 13 " " " II & III
7. 23 watched none.
How many watched I II & III ?

7. Two Swimmers at different rate but at constant Speed were swimming. They met at 18 meters from deep end. Both swimmers took rest for 4.5 seconds. During their return they crossed at 10 meters from ashlor end. What is the length of the pool ?

8. Mr. Raj goes to Office by Train. First train in Main line Starts at 5:02:0. In Harbour Line it starts at 5:10:0. Every Ten minutes there is one train. What is the probability that Raj travels in harbour line at a random time of Driving the Station?

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sectionI and Section II: same fromprevious paper

section III:

1. 30 poles are planted in a field such that the distance

between each pair is 15mts. What is the distance between 1st and 30th pole?ans 435

2. In a company there are 50 A grade employees and 100 B grade employees. The total amount which company gives salaries per month is Rs.5,00,000/-. If A grade employee is given double the salary of C grade employee and B grade is given 3/2 times the salary of C grade employee. what is the amount that A gets more than C.

ans 1250

3. In a class there are 120 students 60% of them speak French. And remaining speak English. 25% of the students are capable of speaking French and can also speak English. Find the total number of English speaking students.

ans 66

4. There are two tanks X and Y with some fluid. X is having 600 gallons of more fluid than Y at present. When 100 gallons of fluid is removed from both X and Y , X will have 3 times that of Y. Find the volume of fluid in X and Y.

ans 1400

5. Given that n= 15*24*28. which of the following is not an Integer.
a. n/7 b. n/14 c. n/21 d. n/39

ans d

section IV:

Inequalities - 5 minutes - 30 questions

data inference True False Data insufficient

1.

.
.
30.

Section V:

8 questions 25 minutes 30 marks

1. A,B,C,D and E are the men who individually are capable of talking in two languages. On whole the no. of people who speak the various languages as follows.
spanish -3, Italian - 3, English-2, French-2.

****

see baron (GRE book) for the exact questions& description of the problem. problem is not described clearly

****

A. Who can speak with D other than E. Ans.(All others)

B. Two persons(A & B) have to talk. Who can mediate them.
clue: See who other can speak, language of those two persons

C. I f a new person has to enter, what languages should he know , So that he can talk to as many people as possible. ans: Spanish and Italian.

2. There are three programmers A,B and C. There are 5 programming
assistants D,E,F,G and H. Management is planning to open a new office in another city using 3 assistants and 2 programmers of the present strength. To do so, they planned to seperate certain individuals who do not function well together. The following guide lines were established to set up the new Office.

a. Programmers A and C are constantly finding fault with one and another and should not be sent as a team to the new office.

b. C and E function well alone but not as a team, They should be seperated.

c. D and G have not bbeen on speaking terms for many months They should not go together.

d. Since D and F have been competing for promotion, they shall not be a team.

D. If A is to be moved as one of the programmers, which of the following cannot be a possible working team?
i. ABDEH ii. ABDGH iii. ABEFG iv. ABEGH v. ABFGH
ans: ii.

E. If C and F are moved to the new office, How many combinations are possible?
i. 1 ii.2 iii.3 iv. 4 v.5 ans: i

F. If C is sent to the new office , which member of the staff cannot go with C?
i.B ii. D iii. F iv. G v. H

3. Flowers Problems:

G. ans: C
H. ans: D

SECTION VI:

1. The loop has to be executed as follows.

```
i=20
if log i=0  then stop
else sum=sum+i
continue
```

a. If i[0]=1 and log operand is >=. What is i[f].
1. 9 ii. 10 iii. 11 iv 12 ans: iii.

b. if i[0]=1 and i[f]=10 what should be the log operand?
i. = i. > iii.< iv. <= ans: B

c. if i=i-1, what is i[f] if loop is <
ans: i[f]=0; i[0]=10.

2. function func(x)
if(n=1) return;
else
func(n) = (n+1)*func(n-1)

then func(5) = ? ans : 360

5. n=0
Do i=1,2
Do j=1,3
DO k=1,2
If((I+J-K)>=2) n=n+1
Print n
end do

ans : 8

6. Given the quadratic equation ax*x+bx+c =0, Find the logical error in the given program and suggest the

correction. ans: value in the square root can be negitive. its not taking that into account.

7. The alphabets A,B....Z arte asigned as numbers 1,2...26.
   What is the expression to find vowels
   The function below returns Boolean
   func()
   Do I = 1,26
   If (expression) the true
   else false

   What is the expression? i=1 or 5 or 11 or 15 or 21.

8. To convert a real to integer by rounding off
   ans: exp: x+0.5

9. To check the given number m is prime or not, it
   is enough to check the division factors from 2 to ans: sqrt(m)____

10 A 3by3 matrix is to be determined from the following logic.
   State true of False. Whether the logic works. If false
   write the necessary corrections
   a11+a12+a13=magic-total
   loop1: Do i=2,3
          If(ai1+ai2+ai3#magic-total) go to failure
          end loop1.

   loop2: Do j=1,2,3
          If(a1j+a2j+a3j#magic-total) go to failure
          end loop 2.
        printf("the matrix is magic")
        printf("the matric is not a magic")
   Ans: The diagonals are not checked.
   After loop2 the following two statements should be added.
   if(a11+a22+a33#magic-total) go to failure
   if(a31+a22+a13# magic-total) go to failure

11. A logic is given to determine the change given to the
    customers in a shop. Tell whether the logic is false or true?
    and tell the reason?

```
int change;
i=50,25,10,5,2,1
change=change-i
if(change>=0) printf("change to be given"i);
else
```

```
change=change+i;
end do loop
```

ans: The logic doesnot work for change less than 50 as change takes -ve value and the loop is ended without giving change

12. A program is used to change Octal to decimal. If n is no of digits and are entered into the program. The digits are entered from minimum to maximum.

```
int oct;
dec=0;
do i=1 to n
input=oct;
dec = (exp)
end do
```

what is the expression to be written?

ans: dec = dec+(8**(i-1)*oct)

13. The logic below is bound to go into endless loop for some compilers, state the reason?

```
do(x<=4.0)
printf("%d%c",x,sin(x))
x = x+0.1
end do
```

ans: X should be in radians,x cannot take other than -phi to phi
therefor for x>3.14 will hang for some compilers.

14. The program given below is to print the radius and area of a circle. For large values of n, the execution is found to take long time. State reasons? How do you reduce the time of execution.

```
int r,n
do
pi=3.14159
else
.
.  .
.
```

ans: Assignments can be done outside.
write subroutines to calculate the repeated calculations.

**** psychology :**********

_____

1. You can think your life is worthwhile because _____.
2. You respect your seniors who are _____.
3. Though you are giving your best to organisation, the organisation is not satisfied with you, then you will _____.
4.How much are you commited to your goals? How do TCS helps achieve your goals ?
5. If you don't like the assignment given by organisation then you ___.
6. If you don't like the working environment then you_____.
7. Your friends help you because _____.
8. You are engaged in 1 year assignment , one of your team mates got a good offer in middle you will -----.
9. If your goals does not maatch with organisation goals then _____
10. People with hormony, honesty, rapport become good adminstratorsbecause _____.
11. What will you see in a new organisation to join _____.
12. If your colleagues and work surroundings are not good what will you do ___.
13. Your friends listen you because _____.
14. Your friends like you because _____.
15. When you are joining in a job what are you goin gto see in
    1) chances for global manager position
    2) Areas of interest
    3) Salary and 4) work satisfaction
16. Good people will alwaays become good managers _____.