

Infosys Sample Paper

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College :

1. 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
 $\therefore x/4 + y/3 + y/6 + x/4 = 6$
 $\Rightarrow x/2 + y/2 = 6$
 $\Rightarrow x + y = 12$

2. 4 Marks

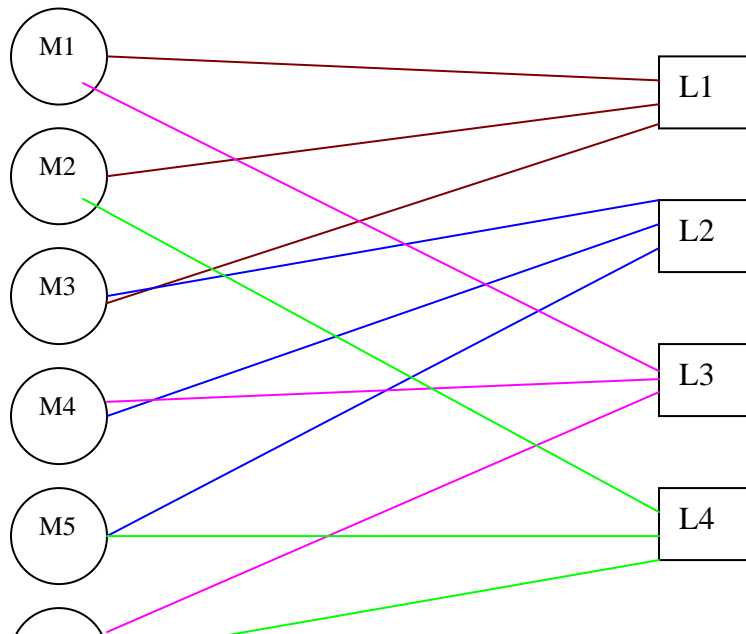
There are some men and some lodges for which the following conditions hold true –

- i) Each lodge is represented by exactly 3 men .
- ii) Each man is associated with exactly 2 lodges.
- iii) Any pair of lodge has only one man in common.

How many men and how many lodges were there?

Ans: 6 men and 4 lodges.

Solution:



- i) L1 is represented by M1, M2, M3. L2 is represented by M3, M4, M5. L3 is represented by M1, M4, M6. L4 is represented by M2, M5, M6.
 - ii) M1 is associated with L1,L3. M2 is associated with L1,L4. M3 is associated with L1,L2. M4 is associated with L2,L3. M5 is associated with L2,L4. M6 is associated with L3,L4.
 - iii) Common between L1 and L2 is only M3. Common between L1 and L3 is only M1. Common between L1 and L4 is only M2. Common between L2 and L3 is only M4. Common between L2 and L4 is only M5. Common between L3 and L4 is only M6.
- i.e all the given conditions are satisfied.

3. 3 Marks

A person sells 2 items for Rs. 12 each. For one he profits 25% and for the other he losses 20%. Altogether did he loss or gain? And by how much?

Ans: He losses by 60 paise.

Solution: Cost price of the item for which he losses = Rs.

$$12 \times 100/80 = \text{Rs. } 15.$$

Cost price of the item for which he Gains = Rs.

$$12 \times 100/125 = \text{Rs } 9.6.$$

\therefore Total cost price is Rs. 24.6 and total sell price is Rs. 24.

So altogether he losses by Rs. 0.6.

4. 3 Marks

My father's age was x in the year x^2 . I am obviously talking about 20th century. In which year was my father born?

Ans: In the year 1892.

Solution: $x = 44$ as $44^2 = 1936$ and the square of any other integer will not fall in between 1900 and 2000. i.e my father was 44 in the year 1936. \therefore my father was born in the year 1892.

5. 4 Marks

A man was going by cycle. After going $\frac{2}{3}$ of total distance the cycle broke down and he had to complete the journey on foot. At the end he found that he walked twice as long as he was on cycle. How many times the speed of the cycle is as the speed of walking?

Ans: 4 times.

Solution: Let the distance be z km, speed of cycle be x km/hr and walking speed be y km/hr.

Then he covered $\frac{2z}{3}$ km by cycle in $\frac{2z}{3x}$ hr and covered $\frac{z}{3}$ km on foot in $\frac{z}{3y}$ hr.
 \therefore according to the question $2 \cdot \frac{2z}{3x} = \frac{z}{3y} \Rightarrow x/y = 4$.

6. 5 Marks

In a badminton tournament a team is eliminated from the tournament if it losses 2 games. If there are 51 teams then what is the maximum number of games required to select the champion?

Ans: 101

Solution: To eliminate the 50 teams $50 \cdot 2 = 100$ games are required. And the champion team may lose in at most 1 game. \therefore Max. no. of games required = 101.

7. 6 Marks

There are 3 tribes in a Island. Sororean who always speak truth, Nororean who always speak false and Midorean who speak truth and false alternately in either order. From the statements given by A,B and C (who belong to 3 different tribes), three persons from the island, identify who belongs to which tribe.

A : C is Sororean.
B is Midorean.

B : A is Nororean.
C is Midorean.

C : A is Midorean.
I am Sororean.

Ans:

A	B	C
Midorean	Nororean	Sororean

Solution: Think logically.

8. 6 Marks

There are 5 persons A,B,C,D,E . All of them have different occupations and none of them are of same age. Their professions are Consultant, Planner, Engineer, Nutritionist and Technician definitely not in the same order. From the following conditions determine whose profession is what?

- i) The consultant is the oldest among them.
- ii) The Technician is not younger than the Planner and the Planner is not younger than the Nutritionist.
- iii) D is not as old as A and also not as young as B, who is not as old as the Engineer and also not as young as C.
- iv) C is not the youngest among them.

Ans: Names are given in descending order of their ages.

Consultant	Engineer	Technician	Planner	Nutritionist
A	D	B	C	E

Solution: Think logically.

9. 8 Marks

4 persons, Watts, Roger, O'neil and Smith, were eating in a restaurant while Smith was killed by poisoning. During investigation the other 3 persons gave the following statements. They gave one false statement each.

Watts : i) I didn't do it.

ii) O'neil sat beside me.

iii) We had our usual waiter.

Roger : *i) Smith was across the table from me.*

ii) We had a new waiter.

iii) The waiter didn't do it.

O'neil : i) Roger didn't do it.

ii) The waiter has poisoned Smith.

iii) Watts lied when he said that we had our usual waiter.

One among these three persons and the waiter murdered Smith. Who is the murderer?

Ans : O'neil is the murderer.

Solution: Think logically.

I have given the false statements in red and italics.

10. 8 Marks

I cannot remember this question correctly as it was a large one. It took almost a full page.

In the English section there were the following types of questions –

1. Reading comprehension (A very large passage was given.)
2. Sentence completion.
3. Error detection in sentences.
4. Fill in the gaps with appropriate words (Prepositions etc.)
5. On Tense and Narration change.
6. Meanings of phrases.

For the puzzles you get 1 hour and for English you get 30 minutes.