

# Some leafs are branches..

## Test of Reasoning

**Directions (1-5): Study the following information carefully and answer the questions given below:**

■ P, Q, R, S, T, U and V are seven students of a college belonging to three streams—Chemistry, Physics, Biology with at least two students in each stream and each of them has a different choice of colour and Pink, Blue, Red, Orange, Yellow, Black, White but not necessarily in the same order. R is in Biology and his choice of colour is White. U does not like either Blue or Black and has the same stream as that of only V among them. Q's stream is the same as that of P but neither Biology nor Chemistry. T's stream is not Biology and he likes Orange colour. The one who likes Pink does not have either Chemistry or Physics as his stream. P likes Red colour. The one who likes Black does not have Physics stream.

- 1. What is Q's favourite colour?**  
1) Pink 2) White  
3) Black 4) Blue 5) None
- 2. If 'Red' is related to 'Physics' then in the same pattern 'Pink' is related to which of the following?**  
1) Physics 2) Biology  
3) Chemistry 4) Data inadequate  
5) None of these
- 3. Which of the following streams has three persons together?**  
1) Chemistry 2) Physics  
3) Biology 4) Data inadequate  
5) None of these
- 4. Which of the following group of students like the group of 'Blue-Red-Orange' colours?**  
1) RST 2) UVQ  
3) QPT 4) RSU 5) None
- 5. What is V's stream?**  
1) Chemistry 2) Physics  
3) Biology 4) Data inadequate  
5) None of these

**Directions (6 - 10): Read the following information carefully and answer the questions given below:**

- Eight different people, viz P, Q, R, S, T, U, V and W are sitting around a circular table, facing the centre, but not necessarily in the same order. Each one of them is from a different company, viz BSNL, MTNL, BHEL, GAIL, ONGC, IOC, SAIL and NTPC. U sits second to the right of the representative of GAIL. The representative of SAIL is an immediate neighbour of the representative of GAIL. Two persons sit between the representative of SAIL and Q. U, R and T are immediate neighbours. Neither R nor T is an immediate neighbour of either Q or the representative of GAIL. The representative of BHEL sits second to the right of S, who is the representative of neither GAIL nor SAIL. V and the representative of BSNL are immediate neighbours. Q is not the representative of BSNL. Only one person sits between R and the representative of MTNL. W sits third to the left of the representative of NTPC. The representative of IOC sits second to the left of the representative of ONGC.
- 6. Four of the following five are alike in a certain way based on the given arrangement and thus form a group.**

**Which is the one that does not belong to that group?**

- 1) W - BSNL
- 2) P - GAIL
- 3) S - BHEL
- 4) T - ONGC
- 5) U - IOC

- 7. Which of the following is true with respect to the given seating arrangement?**  
1) Q is the representative of BHEL.  
2) R sits second to the right of W.  
3) The representative of NTPC sits on the immediate left of the representative of BSNL.  
4) P sits second to the right of the representative of SAIL.  
5) The representative of BHEL and ONGC are immediate neighbours.
- 8. Who among the following sit exactly between Q and the representative of SAIL?**  
1) P and the representative of BSNL  
2) U and V  
3) W and the representative of BHEL  
4) W and V  
5) Representative of ONGC and MTNL
- 9. Who among the following is the representative of MTNL?**  
1) P 2) R 3) W 4) V 5) S
- 10. Who among the following sits second to the left of Q?**  
1) R 2) W  
3) The representative of GAIL  
4) The representative of IOC  
5) V

**Direction (11-15):** In the following questions, only one Conclusion is given and five statements are given as 1), 2), 3), 4) and 5). From this you have to take the statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given statement logically follows.

- 11. Conclusions:** All trees are wires.  
Some wires are leafs.  
Some leafs are branches.  
All branches are wires
- 1) Statements:** No branches are trees.  
All trees are leafs.  
All leafs are wires.
- 2) Statements:** All branches are trees.  
All trees are leafs.  
All leafs are wires.
- 3) Statements:** No branches are trees.  
Some trees are leafs.  
All leafs are wires.
- 4) Statements:** All branches are trees.  
No trees are leafs.  
No leafs are wires.
- 5) Statements:** All branches are trees.  
Some trees are leafs.  
Some leafs are wires.
- 12. Conclusions:** Some keys are tigers  
Some radios are tapes  
Some tapes are keys is a possibility  
Some tigers are radios is a possibility
- 1) Statements:** No tapes are radios.  
Some radios are keys.  
No tigers are keys.
- 2) Statements:** Some tapes are not radios.  
Some radios are not keys.  
All tigers are keys.
- 3) Statements:** Some tapes are radios.  
Some radios are keys.  
All tigers are keys.
- 4) Statements:** No tapes are radios.  
No radios are keys.  
No tigers are keys.
- 5) Statements:** Some tapes are radios.

- No radios are keys.  
All tigers are keys.  
Some boxes are buses.  
Some boxes are roads.  
Some roads are cars is a possibility  
Some boxes are cars
- 13. Conclusions:**
  - 1) Statements:** No buses are cars.  
All cars are boxes.  
Some roads are boxes.
  - 2) Statements:** Some buses are cars.  
No cars are boxes.  
No roads are boxes.
  - 3) Statements:** No buses are cars.  
All cars are boxes.  
No roads are boxes.
  - 4) Statements:** Some buses are cars.  
All cars are boxes.  
Some roads are boxes.
  - 5) Statements:** Some buses are not cars.  
All cars are boxes.  
Some roads are not boxes.



- 14. Conclusions:** Some rabbits are bats is a possibility  
Some cells are bats  
Some carrots are cells.  
Some carrots are bats is a possibility  
Some carrots are rabbits.
- 1) Statements:** No bats are cells.  
Some cells are rabbits.  
All rabbits are carrots.
- 2) Statements:** No bats are cells.  
No cells are rabbits.  
All rabbits are carrots.
- 3) Statements:** Some bats are cells.  
Some cells are not rabbits.  
All rabbits are carrots.
- 4) Statements:** No bats are cells.  
No cells are rabbits.  
No rabbits are carrots.
- 5) Statements:** All bats are cells.  
Some cells are rabbits.  
All rabbits are carrots.
- 15. Conclusions:** No cards are tools.  
Some doors are not lines  
Some cards are doors is a possibility  
Some doors are tools
- 1) Statements:** All cards are lines.  
No lines are tools.  
All tools are doors.
- 2) Statements:** Some cards are lines.  
No lines are tools.  
All tools are doors.
- 3) Statements:** All cards are lines.  
No lines are tools.  
No tools are doors.
- 4) Statements:** No cards are lines.  
No lines are tools.  
All tools are doors.
- 5) Statements:** All cards are lines.  
All lines are tools.  
All tools are doors.

**Directions (16-17): Study the following information to answer the given questions.**

- A man travelled 12 km west from his starting point A and reached point B. He then, took a left turn and travelled 3 km and reached point C. Finally, he travelled 8 km towards east to reach point D.



**16. What is the total distance travelled by the man and in which direction is he from his starting point?**

- 1) 23 km north-west
- 2) 23 km south-west
- 3) 25 km south-east
- 4) 20 km south
- 5) Other than given options

**17. How far is the man from the starting point?**

- 1) 23 km
- 2) 20 km
- 3) 5 km
- 4) 15 km
- 5) Other than given options

**18. How many such pairs of letters are there is the word ELEVATION, each of which has the same number of alphabets between them as in English dictionary?**

- 1) None
- 2) One
- 3) Two
- 4) Three
- 5) More than three

**Directions (19 - 20): Study the following information carefully and answer the questions given below.**

- There are eight friends Anand, Kuldeep, Shyam, Rakesh, Rahul, Vikash, Prakash and Rohit sitting in a circle, facing towards the centre. All of them have their own favourite colour. The colours are red, green, orange, yellow, violet, pink, black and blue.
- Vikash is facing to the centre and he does not like blue and black colour.
- Rakesh is sitting second to the left of Kuldeep and likes red colour.
- Prakash is an immediate neighbour of Anand and likes violet colour.
- The neighbours of Kuldeep likes pink and yellow colour.
- Rahul sitting second to the right of Rohit.
- Kuldeep likes orange colour.
- Kuldeep or Rakesh is not an immediate neighbour of Vikash.
- Anand doesn't like violet or yellow colour.
- Prakash is not an immediate neighbour of Kuldeep and he does not like pink colour.

**19. Who among the following is an immediate neighbour of Vikash?**

- 1) Rohit
- 2) Rahul
- 3) Prakash
- 4) Both Rohit and Rahul
- 5) Other than given options

**20. Who among the following sits second to the right of Rahul?**

- 1) Rakesh
- 2) Shyam
- 3) Kuldeep
- 4) Can't be determined
- 5) Other than given options

### ANSWERS

1-4	2-2	3-2	4-3	5-1	6-2
7-5	8-3	9-5	10-4	11-2	12-3
13-4	14-5	15-1	16-2	17-3	18-5
19-4	20-2				