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Set No 133

Directions: Study the following information carefully and answer the questions given beside:

In a four storey building, 10 people namely – Harsh, Raj, Eli, Rahul, Simran, Sunny, Neeraj, Viraj, Anjali and Mani live on different floors, such that one person lives in one flat only. Each floor in this building has 3 unique flats – Flat number 101, Flat number 110 and Flat number 111 respectively from left to right. The ground floor is taken as first floor and the floor on the top is taken as fourth floor. Each of the flats is designed in such a manner that flat number 101 of second floor is just above flat number 101 of first floor and likewise.

Some additional information is given below:

As per the suggestion of an astrologer, Harsh decided never to stay on an even numbered floor and in an even numbered flat.

Simran stays in the flat just above Rahul's.

Raj and Eli stay on the same floor and no one else is staying with them on that floor.

The two flats in which no person is staying are on even numbered floors and even numbered flats.

The flat between Anjali's and Neeraj's is unoccupied and Anjali stays in one of the flats above Neeraj's.

Viraj stays in an odd numbered flat which is to the left of Neeraj's.

Raj and Sunny both stay in the flat which is numbered 101.

Harsh stays on the floor just above Simran's floor and Sunny stays on one of the floors on which one flat is vacant.

1. In which of the following flats does Mani stay?

- | | | |
|-------------------------------|-------------------------------|-------------------------------|
| A. Flat number 101 of floor 3 | B. Flat number 111 of floor 2 | C. Flat number 101 of floor 2 |
| D. Flat number 110 of floor 1 | E. None of these | |

2. Who among the following stay at floor number 3?

- | | | |
|---------------------------|-------------------|---------------------|
| A. Harsh and Neeraj | B. Harsh and Mani | C. Sunny and Anjali |
| D. Sunny, Harsh and Viraj | E. Anjali and Raj | |

3. Who among the following stay in flat number 110?

A. Anjali

B. Rahul

C. Neeraj

D. Both A and C

E. Both A and B

4. Four of the following five are similar in certain way and hence form a group. Which of the following does not belong to the group?

A. Raj

B. Harsh

C. Simran

D. Rahul

E. Eli

5. Harsh is related to Eli in a way, Viraj is related to Sunny in the same way then Anjali is related to whom among the following?

A. Raj

B. Harsh

C. Rahul

D. Neeraj

E. None of these

Correct Answers:

1	2	3	4	5
A	B	D	A	E

Common explanation:

Reference:

Each floor in this building has 3 unique flats – Flat number 101, Flat number 110 and Flat number 111 respectively from left to right.

The ground floor is taken as first floor and the floor on the top is taken as fourth floor. Each of the flats is designed in such a manner that flat number 101 of second floor is just above flat number 101 of first floor and likewise.

Inference:

Based on the above information we can say that the structure of building would be as follows.

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4			
3			
2			
1			

Reference:

The two flats in which no person is staying are on even numbered floor and are even numbered flats.
 Raj and Eli stay on the same floor and no one else is staying with them on that floor.
 Raj and Sunny both stay in the flat which is numbered 101.

Inference:

With the first hint it is clear that the vacant flats are flat number 110 of floor no. 2 and 4.
 As per the second hint it is clear that Raj and Eli stay on either floor number 2 or floor number 4.
 Sunny's position can't be determined as of now because he could be at flat number 101 of any of the remaining three floors.

Case1

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4	Raj	Vacant	Eli
3			
2		Vacant	
1			

Case 2

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4		Vacant	
3			
2	Raj	Vacant	Eli
1			

Reference:

As per the suggestion of an astrologer, Harsh decided never to stay on an even numbered floor and in an even numbered flat.

Simran stays in the flat just above Rahul's.

Harsh stays on the floor just above Simran's floor and Sunny stays on one of the floors on which one flat is vacant.

Inference:

As we know that Sunny stays in flat number 101 and with the third hint we get to know that he stays on one of the floors where one of the flats is vacant, so he must be living at flat no. 101 of floor no. 2 in Case 1 and that of on floor no. 4 in Case 2.

Case1

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4	Raj	Vacant	Eli
3			Harsh
2	Sunny	Vacant	Simran
1			Rahul

Case 2: Eliminated because there is no place left to fix the position of Rahul, Simran and Harsh as per the hints.

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4	Sunny	Vacant	
3			
2	Raj	Vacant	Eli
1			

Reference:

The flat between Anjali's and Neeraj's is unoccupied and Anjali stays in one of the flats above Neeraj's. Viraj stays in an odd numbered flat which is to the left of Neeraj's.

Inference:

Case1

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4	Raj	Vacant	Eli
3		Anjali	Harsh
2	Sunny	Vacant	Simran
1	Viraj	Neeraj	Rahul

Thus the final arrangement is obtained by placing 'Mani' at the vacant place.

Floor Number	Flat Number 101	Flat Number 110	Flat Number 111
4	Raj	Vacant	Eli
3	Mani	Anjali	Harsh

2	Sunny	Vacant	Simran
1	Viraj	Neeraj	Rahul

Answers :

- From the following explanation it is clear that Mani stays in flat number 101 of floor 3.
Hence option A is correct.
- From the following explanation it is clear that Mani and Harsh stay at floor number 3.
Hence option B is correct.
- From the following explanation it is clear that Anjali and Neeraj stay in flat number 110.
Hence option D is correct.
- From the following explanation it is clear that 'Raj' is the odd one out because he belongs to flat number 101 , rest of the persons belong to flat number 111.
Hence option A is correct.
- From the following explanation it is clear that Anjali is related to "Vacant flat" in the same manner as Viraj is related to Sunny and Harsh is related to Eli.
Hence option E is correct.

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