NTS GAT General Past Paper

Iqbal road is one block long. On one side of the road, there are seven houses, numbered 2, 4, 6, 8, 10, 12 and 14, in that order, from left to right. Each of these houses is owned by exactly one of the following seven homeowners: Q, R, S, T, U, V and W. The following information is known about these homeowners:

T lives in house number 2 or house number 14.

Neither Q nor R lives next door to W.

If V lives at either end of the block, he lives next door to R.

S lives next door to either U or W, possible both.

Solution:

2	4	6	8	10	12	14
Q	R	S	T	U	V	W

R1: $T = 2$ or 14

R2: $Q \neq W$, $R \neq W$

R3: $(V = \text{End}) \rightarrow (V = R)$

R4: $S = U$ or $S = W$ or $U = S = W$

Questions:

1. If V lives at 14 Iqbal road, and W lives next door to T, what is the number of W's house?

   (A)   2

   (B)   4

   (C)   8

   (D)   10

   (E)   12

Solution:

Rules	2	4	6	8	10	12	14
Q							V
R1	T						V
Q	T	W					V

W lives at 4 Iqbal road. So, option B is correct.

2. If V and Q live at 2 Iqbal road and 12 Iqbal road, respectively, all of the following must be true EXCEPT:

(A)   R lives at 4 Iqbal road

(B)   T lives at 14 Iqbal road

(C)   W lives at 8 Iqbal road

(D)   S lives next door to U

(E)   S lives next door to R or Q

Solution:

Rules	2	4	6	8	10	12	14
Q	V					Q	
R1	V					Q	T
R3	V	R				Q	T
R2	V	R		W		Q	T
R4	V	R	U/S	W	U/S	Q	T

We have to select the false option. So, option D is correct.

3. If V lives at one end of the block, which of the following could be the owners, in order, of the houses at numbers 4, 6, 8, 10 and 12?

      (A)   R, S, Q, U, W

      (B)   R, S, W, Q, U

      (C)   Q, U, R, S, W

      (D)   Q, U, S, W, R

      (E)   Q, U, W, S, R

Solution:

Apply excluding rule:

R1   All okay.

R2   Option B and option D are wrong.

R3   Option C is wrong.

R4   Option A is wrong.

So, option E is correct.

4. If Q lives at 4 Iqbal road and V lives at 14 Iqbal road then which of the following must be true?

      (A)   W and S are adjacent to each other.

      (B)   R and U are adjacent to each other.

      (C)   S and Q are adjacent to each other.

      (D)   Q and U are adjacent to each other.

      (E)   U and S are adjacent to each other.

Solution:

Rules	2	4	6	8	10	12	14
Q		Q					V
R1	T	Q					V

R3	T	Q				R	V
R2	T	Q		W		R	V
R4	T	Q	U/S	W	U/S	R	V

Option (A)   Must be true.

Option (B)   Can be true.

Option (C)   Can be true.

Option (D)   Can be true.

Option (E)   Wrong.

So, option A is correct.