

NTS GAT General Past Paper

Analytical – Exam No. 10 (PP)

Prepared by: GAT Online Tutor

An auditing company must audit each of seven companies R, S, T, U, V, W, and X. The company will use two auditors, each of whom will be assigned a group of companies to audit. The companies will be divided into group 1 and group 2 according to the following conditions:

Each group must include at least three companies.

No company can be in both groups.

R must be in the same group as X.

If T is in group 1, W must be in group 1.

If U is in group 2, S must be in group 1.

Solution:

R S T U V W X

2 Groups

R1: Group ≥ 3

R2: 1 company per group

R3: $R = X$

R4: $T_1 \rightarrow W_1$

R5: $U_2 \rightarrow S_1$

Questions:

1. Which of the following is an acceptable assignment of companies to groups?

	Group 1	Group 2
(A)	R, T, U, W	S, V, X
(B)	R, T, W, X	S, U, V
(C)	S, T, V, W	R, U, X

- (D) S, V, W, X R, T, U
(E) T, V, W R, S, U, X

Solution:

Apply excluding rule:

- R1 All okay.
R2 All okay.
R3 Option A and option D are wrong.
R4 All okay.
R5 Option B and option E are wrong.

So, option C is correct.

2. If S and W are in group 2, which of the following must be together in one of the groups?

- (A) R and T
(B) R and V
(C) T and U
(D) T and V
(E) U and X

Solution:

Rules	G1	G2
Q		S, W
R5	U	S, W
R4	U	S, W, T
R3	U, R, X	S, W, T
Remaining	V can be in any of the group	

- Option (A) Wrong.
Option (B) Can be true.

- Option (C) Wrong.
- Option (D) Can be true.
- Option (E) Must be true.

So, option E is correct.

3. Any of the following could be true EXCEPT:

- (A) R and T are in group 2
- (B) S and U are in group 1
- (C) W and X are in group 1
- (D) R, V and W are in group 1
- (E) U, V and T are in group 2

Solution:

Options	G1	G2	True/False
Option (A)	W, U, S, V	R, T, X	True
Option (B)	S, U, R, X	T, W, V	True
Option (C)	W, X, R, S	T, U, V	True
Option (D)	R, V, W, X	T, U, S	False as R5
Option (E)	R, X, S, W	U, V, T	True

Option D is false as R5. If we follow R5 and place S in G1, then we violate R1. So, option D is correct.

4. If R is in group 2 with only two other companies, which of the following must be in group 1?

- (A) S
- (B) T
- (C) U
- (D) V
- (E) W

Solution:

Rules	G1				G2		
Q					R		
R3					R	X	
R4	W				R	X	

R4 states that if T is in G1, W must be in G1, then W must be in G1. Because if W is in G2, then T should be in 1 and R4 violated. So, option E is correct.

5. If X and U are on group 2, which of the following must be in group 1?

- (A) R, T, W, S
- (B) T, W, R, V
- (C) S, T, V, W
- (D) S, V, W, R
- (E) T, V, W

Solution:

Rules	G1	G2	Excluding rule
Q		X, U	All okay.
R3		X, U, R	Option A, option B and option D are wrong.
R5	S	X, U, R	Option E is wrong.

So, option C is correct.