

NTS GAT General Past Paper

Analytical – Exam No. 02 (PP)

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Three vegetables must be selected for salad from six vegetables i.e., carrot, chili, cucumber, onion, radish and tomato according to the following conditions:

Either carrot or cucumber or both must be selected.

Either chili or radish must be selected.

Neither cucumber nor radish can be selected with chili.

Solution:

Ca Ch Cu O R T (3 out of 6)

R1: $Ca/Cu/(Ca + Cu)$

R2: Ch/R

R3: $Cu \neq Ch, R \neq Ch$

Questions:

1. Which of the following is an acceptable selection of vegetables for salad?

- (A) Carrot, chili and cucumber
- (B) Carrot, cucumber and onion
- (C) Carrot cucumber and radish
- (D) Chili, cucumber and radish
- (E) Chili, onion and radish

Solution:

Apply excluding rule:

R1 Option E is wrong.

R2 Option B is wrong.

R3 Option D and option A are wrong.

So, option C is correct.

2. Which of the following pairs of vegetables CANNOT both be among the vegetables selected?

- (A) Carrot and chili
- (B) Carrot and onion
- (C) Chili and tomato
- (D) Onion and tomato
- (E) Radish and tomato

Solution:

Apply excluding rule:

R1 Option A and option B are wrong.

R2 Option C and option E are wrong.

So, option D is correct.

3. If cucumber is selected for salad, which of the following must also be among the vegetables selected?

- (A) Carrot
- (B) Chili
- (C) Onion
- (D) Radish
- (E) Tomato

Solution:

It is stated that cucumber is selected. It means we cannot select chili as R3; so, we have to select radish as R2. Hence, radish must be selected. So, option D is correct.

4. If radish is not selected, which pair of vegetables must be among those selected?

- (A) Carrot and chili
- (B) Carrot and onion

- (C) Carrot and tomato
- (D) Chili and onion
- (E) Chili and tomato

Solution:

It is stated that radish is not selected. It means chili must be selected as R2; and R1 says that either carrot or cucumber or both must be selected. So, option A is correct.