An opera company selects from among six operas–
Fidelio, *La Boheme*, *Otello*, *Siegfried*, *Tosca* and
Zauberflöte–to perform during a given opera season.
Each opera, if performed, will be performed exactly
once. The list of operas performed is consistent with
the following conditions:

If *Tosca* is performed, then *Zauberflöte* is
not.

Fidelio is performed only if *Tosca* is
performed.

If *La Boheme* is performed, then so is
Zauberflöte.

If *Fidelio* is not performed, then *Siegfried* is.

If *Tosca* is not performed, *Otello* is not
performed.

1. Which one of the following could be a
   complete and accurate list of the operas
   performed in a given season?

   A. *Fidelio, La Boheme, Otello, Siegfried*
   B. *La Boheme, Otello, Tosca, Zauberflöte*
   C. *Fidelio, La Boheme, Tosca, Zauberflöte*
   D. *La Boheme, Siegfried, Tosca*
   E. *Fidelio, Tosca*

2. If *Fidelio* is not performed in a given opera
   season, then each of the following could be
   true about that opera season EXCEPT

   A. *Tosca* is performed.
   B. *Otello* is performed.
   C. Neither *La Boheme* nor *Tosca* is performed.
   D. Neither *La Boheme* nor *Siegfried* is
      performed.
   E. Neither *Otello* nor *Tosca* is performed.

3. If in a given opera season both *Otello* and
   Tosca are performed, then which one of the
   following must be true in that opera season?

   A. *La Boheme* is the only other opera
      performed.
   B. *Siegfried* is the only other opera performed.
   C. At most two other operas are performed.
   D. Neither *Fidelio* nor *Siegfried* is performed.
   E. Exactly one other opera is performed.

4. If *Zauberflöte* is performed in a given opera
   season, then which one of the following
   must be true during that opera season?

   A. *Siegfried* is performed.
   B. *La Boheme* is performed.
   C. Both *La Boheme* and *Siegfried* are
      performed.
   D. At most one other opera is performed.
   E. At least two other operas are performed.

5. Which one of the following is the maximum
   number of operas which could be performed
   during a given opera season?

   A. two
   B. three
   C. four
   D. five
   E. six

6. Each of the following is a pair of operas
   which could be performed together
   EXCEPT

   A. *Fidelio*, *Otello*
   B. *Fidelio*, *La Boheme*
   C. *Fidelio*, *Siegfried*
   D. *Siegfried*, *La Boheme*
   E. *Siegfried*, *Otello*

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1. E
2. D
3. C
4. A
5. C
6. B

Question 1, like most first questions, is a testing of the rules. All four answer choices violate one of the conditions. Question 2 is D because if *Fidelio* is performed, *Siegfried* must be performed. On Question 3, because *Tosca* can't be with *Zauberflöte* and because *La Boheme* means the existence of *Zauberflöte,* then *Tosca* can't be with either of those–and thus only two more operas can be performed.

On Question 4, the key is that you need either *Fidelio* or *Siegfried* under the rules, and you can't have *Fidelio* if *Zauberflöte* is performed. For the maximum number question, remember to identify rules that require two things to not be together. There is only one such rule–the *Tosca* and *Zauberflöte* rule–but *La Boheme* impels the existence of *Zauberflöte* and thus cannot be included in such a maximum list as well. On Question 6, you cannot have both *Fidelio* and *La Boheme* because *Fidelio* means *Tosca* and *La Boheme* means *Zauberflöte,* and *Tosca* and *Zauberflöte* can't go together.