I. Indicate whether the following are true or false. (3 pts. each)

A. Being a car is a sufficient condition for being a vehicle.
   **True**

B. Being a car is a necessary condition for being a vehicle.
   **False**

C. Being a vehicle is a sufficient condition for being a car.
   **False**

D. Being a vehicle is a necessary condition for being a car.
   **True**

II. For each of the following tables determine: (6 pts. each)

A. Which, if any, of the candidates—A, B, C, or D—is eliminated by the sufficient condition test as a sufficient condition for target feature G?

B. Which, if any, of the candidates—A, B, C, or D—is eliminated by the necessary condition test as a necessary condition for target feature G?

C. Which, if any, of the candidates—A, B, C, or D—is not eliminated by either test?

<table>
<thead>
<tr>
<th>Case 1:</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>~D</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case 2:</td>
<td>~A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>G</td>
</tr>
<tr>
<td>Case 3:</td>
<td>A</td>
<td>~B</td>
<td>C</td>
<td>~D</td>
<td>G</td>
</tr>
</tbody>
</table>

Eliminated by SCT: ________ **None** __________

Eliminated by NCT: ________ **D, A, B** __________

Not eliminated by either: ________ **C** __________
b. Case 1: A B C D ~G
   Case 2: ~A ~B C D G
   Case 3: A ~B ~C ~D ~G

   Eliminated by SCT: ______ A, B, C, D ______
   Eliminated by NCT: _______ A, B ___________
   Not eliminated by either: ________ None ______


c. Case 1: A B ~C D G
   Case 2: ~A ~B C D ~G
   Case 3: A ~B C ~D ~G

   Eliminated by SCT: _____ A, C, D _____
   Eliminated by NCT: _______ C ____________
   Not eliminated by either: ________ B ___________