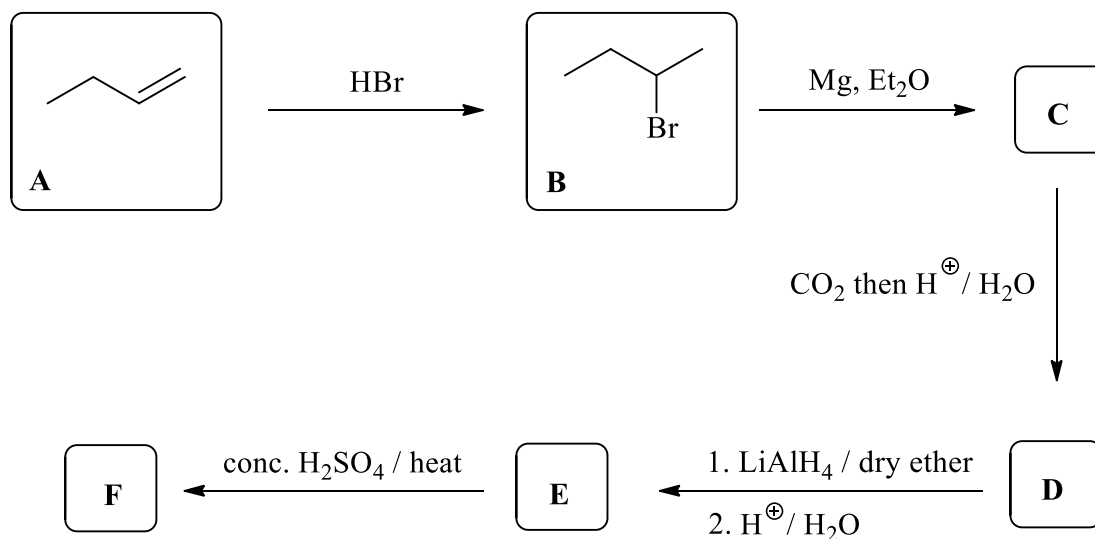


Marks
6

- Consider the following reaction sequence beginning with the alkene **A**.



Suggest structures for compounds **C – F** in the reaction sequence above.

<p>C</p>	<p>D</p>
<p>E</p>	<p>F</p>

Describe the selectivity observed, and briefly explain the reasons for it, in the conversion of alkene **A** to compound **B**.

Markovnikov's rule: the H^+ of HBr adds to C1 leading to a secondary carbocation rather than to C2 which leads to a primary carbocation. The more substituted carbocation is more stable due to hyperconjugation.