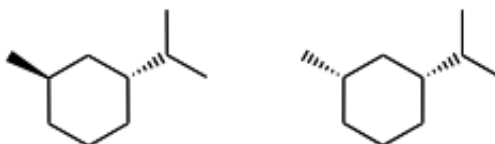


Q1) Complete these sentences: 6 marks

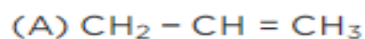
- 1- A right-hand glove is different than a left-hand glove, the property is commonly called ---
- 2- Two compounds that are nonsuperimposable mirror images of each other are called -----
- 3- Alkanes that contain three or fewer Carbon atoms have ----- constitutional isomers. Constitutional isomers are also called -----
- 4- The two compounds shown below are -----.



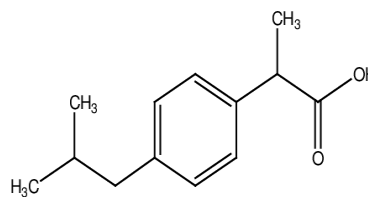
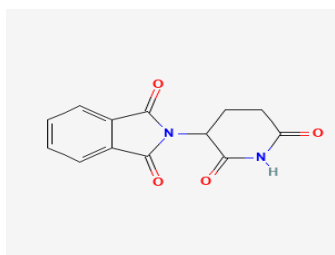
- 5- In general, a molecule with no stereogenic centers will not be -----.
- 6- A plane of symmetry is a mirror plane that cuts the molecule in two halves, so that one half of the molecule is----- of the other half.

Q2) Draw and name the more stable conformer of Butane. 5 marks

Q3) Which of the following compounds exhibit geometric isomerism? Explain and show the isomers. 5 marks



Q4) Show the chiral carbon in the following molecules: 4 marks



Good Luck

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