

Name: **Key**

1. (3 Pts.) How many valence electrons does silicon (Si) have?

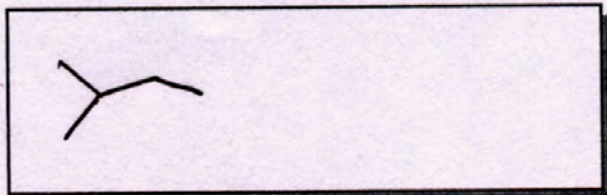
4

2. (3 Pts.) What is the valence of Selenium (Se)?

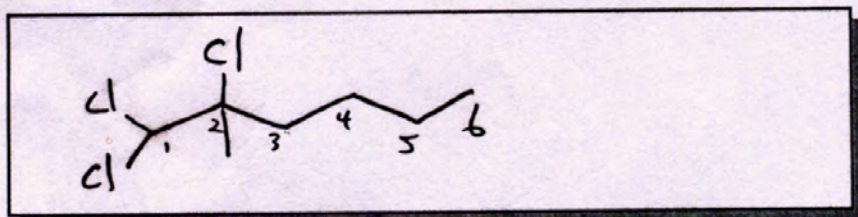
2

3. (9 Pts total, 3 Pts. each) Draw the structure for the following compounds:

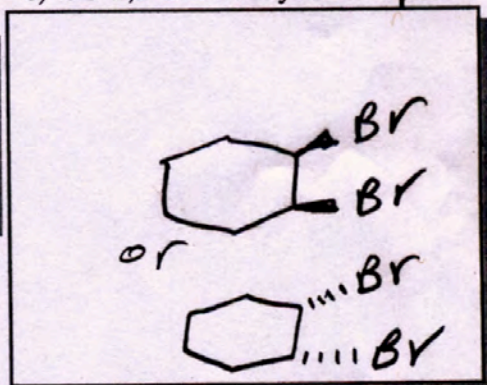
a) Isopentane



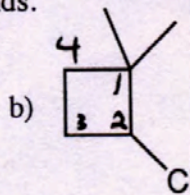
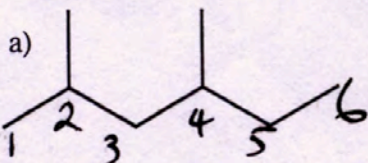
b) 1,1,2-Trichloro-2-methylhexane



c) ~~cis-1,2-dibromocyclohexane~~



4) (4 Pts total, 2 Pts. each) Provide the IUPAC names for the following compounds.

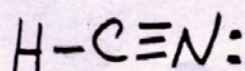


2,4-dimethylhexane

2-chloro-1,1-dimethylcyclobutane

5. (6 Pts, 3 pts each) Draw the Lewis dot formula for the following compounds.

A) HCN



B) H₂PO₄[⊖]

