

Summer 2015, CEM143, Quiz 1 (25 Points)

Name:

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

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

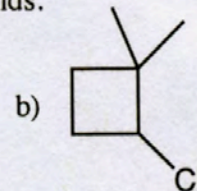
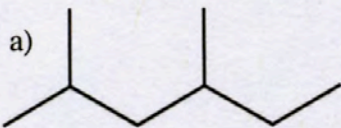
3. (9 Pts total, 3 Pts. each) Draw the structure for the following compounds:

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.



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

A) HCN

B) H_2PO_4^-