

CH0310, ORGANIC CHEMISTRY I

Professor Dennis P. Curran

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Quiz 1, Take home, due midnight Monday, Jan 12, 2009

Hand in before/after class

Drop off at 1101 CSC (before 5 pm)

Fax to 412-624-9861 (till midnight)

Email to lynnec@pitt.edu (till midnight)

Drawing Lewis Structures

To prepare:

- review your General or Freshman chemistry book and notes
- read Chapter 1, especially pages 1-19
- review class notes for Lecture 1
- Do problems 21-24 in book

Writing and understanding of Lewis structures (with formal charges) of simple organic and inorganic molecules should now (or soon) be “second nature”. This quiz will help you to test yourself. If it’s not easy, then you need more review.

The quiz is on the other side

NAME

SIGNATURE

Drawing Lewis Structures

1) Write Lewis Structures for each of the following molecules. Include charges if needed (8 pts).

a) $\text{CH}_2=\text{CH}_2$ (ethene)

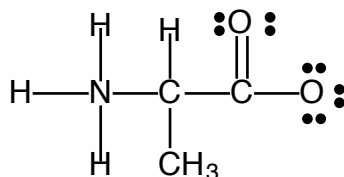
b) HONO_2 (HNO_3 , nitric acid)

c) acetone anion: $\text{CH}_3\text{C}(\text{O})\text{CH}_2^-$

d) $\text{CH}_3\text{OCH}_2\text{CO}_2\text{CH}_2\text{CH}_3$

2) Add a formal charge to each atom with non-zero charge to complete the following structures (2 pts).

a) alanine



b) fulminic acid

