

CHEM 35
 General Chemistry
EXAM #3 – TakeHome Addendum

November 28, 2000

Name: _____ Answer Key _____

SSN: _____

Initial Exam Score	
Addendum Score	
TOTAL:	

INSTRUCTIONS: This is an *optional* addendum to EXAM #3. It consists of the following two questions. You may use any non-human resources (i.e., books, notes, etc.) and take as much time as you care to spend on this exercise. Each question is worth **5 pts – there will be no partial credit awarded**, so please be certain that you have answered each question fully and correctly. The score that you receive on this takehome assignment will be added to your exam score. The completed assignment is **DUE: Friday, December 1, 2000 at 10:10 am (at the start of class)**. **Assignments turned in after that time will be discarded and not graded – no exceptions!!**

1. (5 pts) Write the ground state electron configuration for the following ion (use noble gas abbreviations for core electrons where appropriate):



2. (5 pts) Show the ground state molecular orbital electron configuration for the molecular ion **O₂⁺** on a molecular orbital energy level diagram.

For the 7 p-electrons:

