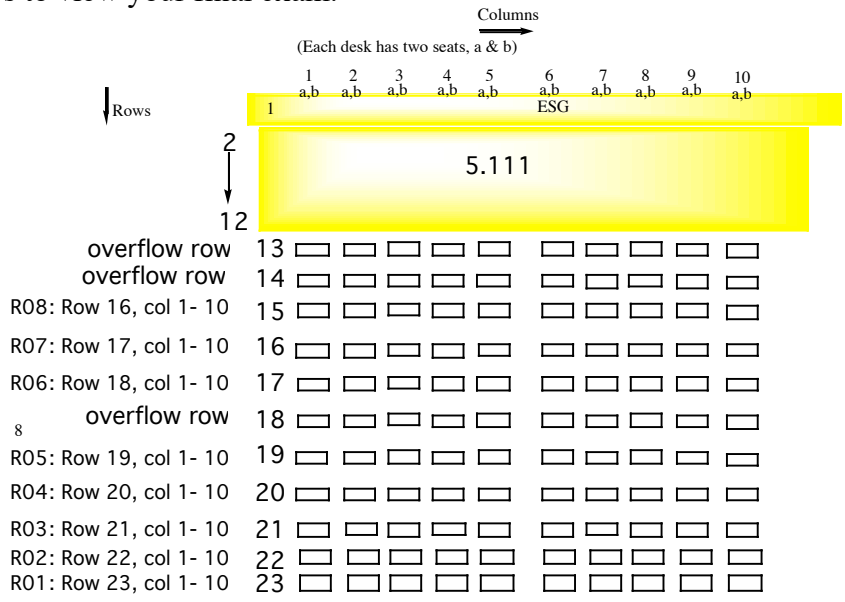
INSTRUCTIONS AND LOGISTICS FOR 5.112 FINAL EXAM
DECEMBER 15, 2004
9 AM - NOON, DUPONT

FINAL: Approximately 130-150 points of the final exam covers lectures #26-35 (MO theory for diatomic and polyatomic molecules, coordination complexes, d orbitals, crystal field theory, color and magnetism for coordination complexes, spectrochemical series, MO theory of octahedral complexes, kinetics of ligand substitution reactions, bonding in extended solids, and metalloenzyme basics), associated reading, problem sets #8-9, and the extra problem set. Approximately 150-170 points of the final exam covers lectures #1-25 and associated reading, and problem sets #1-7. Exam is closed book and closed notes. Paper or electronic dictionaries are not allowed. Bring your calculator and your MIT ID card. A list of physical constants, a periodic table without electron configurations and equations will be supplied. Equations that you are responsible for are the same as those for the hour exams. See instructions for hour exams on the website. You will be provided with formulas for the angular part of the d orbital wavefunctions. You should know the formula for the spin-only magnetic moment. Quantitative solutions to problems must have the correct number of significant figures. Full credit will only be awarded if your work is presented, clearly shows the units and is intelligible.

QUESTION AND ANSWER SESSIONS: TAs will present a review session in recitation on Thursday, and TAs will be available to answer questions on Tuesday, Dec. 14 from 2-8 pm in 4-153, 4-261. Check with your TA and on the web for more information about help sessions.

INSTRUCTOR AVAILABILITY: Professors Cummins (ccummins@mit.edu) and Ceyer (stceyer@mit.edu) are easily available by first contacting them by email. In addition, Prof. Cummins will have office hours from 2:30-3:30 p.m. on Friday, Monday, and Tuesday December 10, 13, and 14, and Prof. Ceyer will have office hours from 1:30-2:30 pm on those same days.

FINAL GRADES: available from WEBSIS sometime soon after December 20. Final grades will not be distributed by the Chemistry Education Office or the TAs. Check website in January for opportunities to view your final exam.