The exam will be given on Thursday, May 4, 2023 starting at 8:30 am. Within reason, you may take as much time as you like for the exam within a single sitting.

You may bring one sheet of 8.5" × 11" paper containing whatever hand-written and non-xeroxed information you think is relevant. I will provide a sheet with parameters and some equations; however, the equations won’t provide any definitions of the terms within them.

You should bring a calculator for the exam.

The exam will take place by Zoom. Your camera should be on so that I can see you while you take the exam. You can ask me questions by Zoom or email during the exam or you can call me on the phone.

You should show all of your work. In general, you will not receive credit for a correct answer with no explanation, calculation, and/or derivation. On the other hand, partial credit may be given for incorrect answers for which parts of the problem-solving approach were correct.

The exam will be based on material covered in lecture as well as the homework problems. The questions will include some derivations based on lecture material, explanations of some physical concepts and parameters relevant to spectroscopy, and analysis of electronic spectra of proteins. Understanding the lecture and class notes and homework will be useful for the exam.

The exam will focus on the electronic spectroscopy and magnetic resonance material covered since the first exam.