Reading:

Biophysical Chemistry: Techniques for the Study of Biological Structure and Function, Vol 2
Cantor and Schimmel
Pages 356-359 (Interaction of light with molecules)
Pages 361-368 (Absorption spectroscopy of electronic states)
Pages 433-439 (Fluorescence Spectroscopy)

Copies of the selected pages are available in the library

Questions:

1) What parameters determine the amount of light absorbed in a sample (Beer-Lambert Law)?

2) What is the Frank-Condon principle?

3) What selection rule is important for electronic absorption spectra? (The answer is not strictly in the assigned reading, but can be found in a physical chemistry textbook such as Atkins)

4) What three processes can a molecule undergo that involve absorption or emission of a photon?

5) What pathways are available for returning an excited molecule to the ground state?