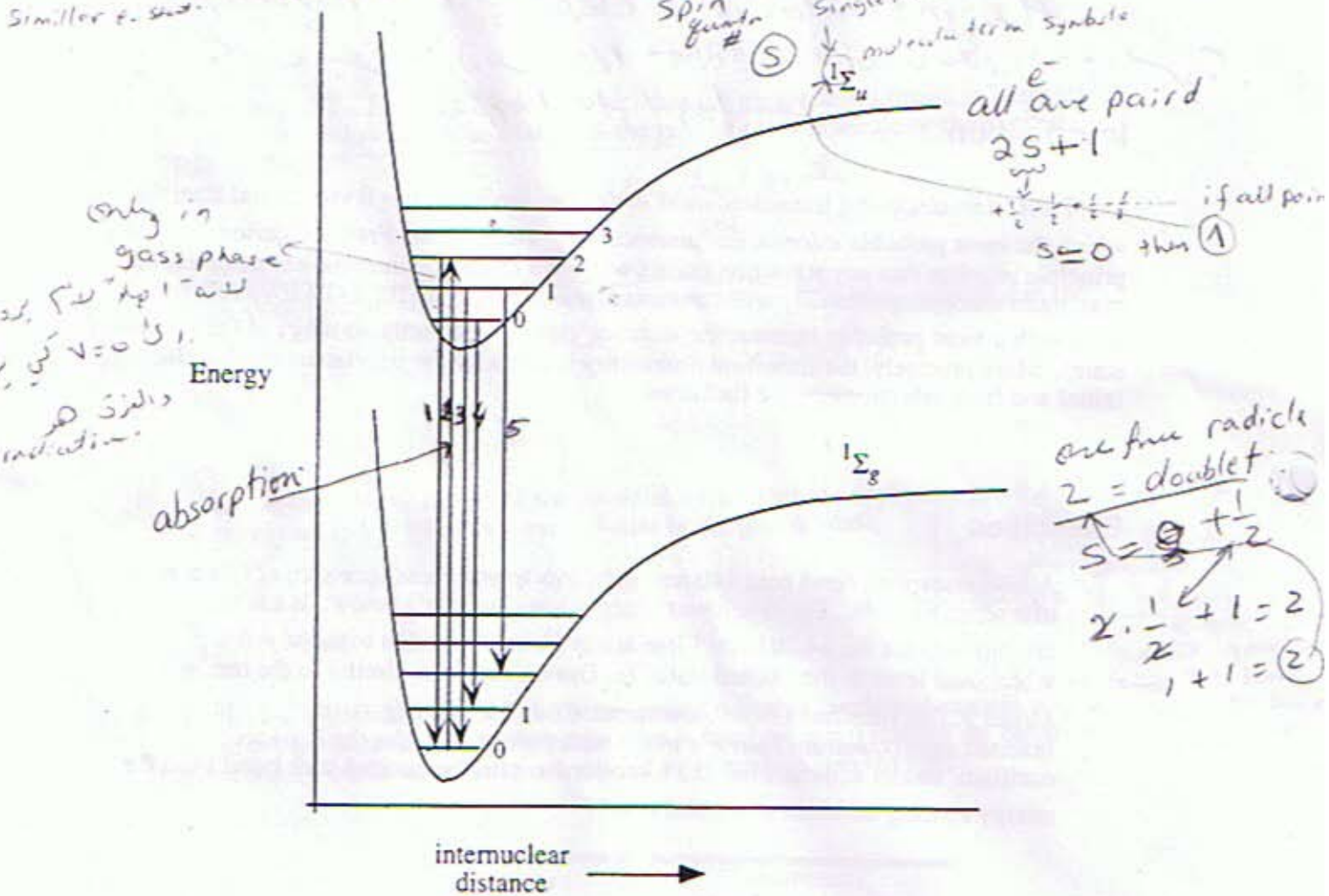
study.

Model 4: Fluorescence.

Singlet to singlet - without a change of spin

No change in spin.

When an electronically excited state molecule releases a photon in a radiative transition to the ground electronic state and the spin quantum number, S, does not change, the molecule is said to fluoresce and the process is called fluorescence. Typically, fluorescence occurs about 10^{-6} seconds after absorption of a photon.



Critical Thinking Questions

12. Which transition(s) in Model 4 are absorptions?

#2

13. Which transition(s) in Model 4 are emissions?

all the others.