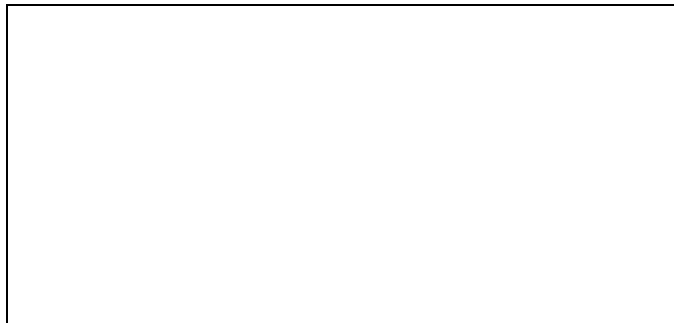


2012 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS

- (e) The student then adds a small crystal of $\text{KI}(s)$ to the test tube. The test tube is corked and inverted several times. The I^- ion reacts with I_2 to form the I_3^- ion, a linear species.
- (i) In the box below, draw the complete Lewis electron-dot diagram for the I_3^- ion.



- (ii) In which layer, water or hexane, would the concentration of I_3^- be higher? Explain.