Name _____ Biology 211 Lab Boomer, Photosynthesis

(1) 2 pts. Write the overall reaction for photosynthesis.

(2) 1 pt. Which part of the above equation was measured using the manometer.

(3) 0.5 pts. each. Answer the following true/false questions.

_____ The chromatography solvent was polar.

_____ Chlorophylls moved the farthest up the paper during chromatography analysis.

_____ Chlorophylls absorb both 400-500 nm and 600-700 nm light energy.

_____ Accessory pigments only absorb 400-500 nm light energy.

_____ The required "blank" for the spectrophotometer was water.

_____ When using the spectrophotometer, you controlled setting the absorbance.

_____ The units for absorbance were in nm.

_____ During the manometer experiment, Elodea was grown in water.

(4) 2 pts. List FOUR variables that were controlled during the manometer experiment.

a)

b)

c)

d)

(5) 0.5 pt. per box. Complete the following table about different team manometer set-ups.

Window Filter (nm)	Color the Window Appeared	<u>Should</u> Support Photosynthesis? Y or N
660-680		
520-540		
380-750		