## **QUESTIONS TO HAND IN – EXPERIMENT 16**

NAME			
LA	LAB INSTRUCTORLAB DAY/TIME	AB DAY/TIME	
1.	1. Does a red photon have more or less energy than a blue one?		
2.	2. This experiment uses a sodium vapor lamp to produce light of a known wavelength can't you just use an incandescent light bulb?	n. Why	
3.	3. A prism disperses violet light through a larger angle than red light. How does the grating differ in this regard?	diffraction	
4.	<b>4.</b> Name a simple example in nature where white light is dispersed into its componen	ts.	
5.	5. The ground state energy of the hydrogen atom is equal to $eV =$	I	