Name:

Lab Quiz #4

Microscopy

5	1.	What are the three key elements of a microscope that are needed in order to produce an image? (5 points)
		a. Specimen
		b. Source of illumination
		c. Set of lenses
5	2.	The process by which two or more waves combine to cancel/reinforce each other is called, and the pattern of additive/canceling exhibited by the waves is called (5 points)
0	3.	In what type of microscopy are the cells to be examined often killed first? (3 points)
		phase-contrast microscopy and electron microscope
4	4.	In order to visualize the actin filaments in a cell, what type of microscopy would you most likely use? Briefly justify your answer. (5 points)
		Fluoresence-tag the action filaments w/
5	5.	Draw a small diagram of what indirect immunofluorescence binding looks like. Assume target molecule is fibronectin. (5 points)
7		primary secondary antibody of FP-soit will fluoresce What is the focal length of a microscope? (2 points)
		The focal length of a microscope is the
		distance between the midline of an
		image to two points on H -)