AY 5, Summer Session I, 2008: Quiz #2

Draft: July 5, 2008

1.	What are the four fundamental forces in order of decreasing strength?
2.	What was the chemical composition of the early Universe? Approximately, how much of each element was there by mass?
3.	With a phrase each, describe the "observables" in Hubble's Law $v=H_0\cdot d$. ("Observables" are what we actually measure.)
	In a sentence, describe how to measure one of the "observables."
4.	The Hertzsprung-Russell diagram was the only plot in "The Lives of Stars." In a sentence, what information about a star (or stars) is given by the Hertzsprung-Russell diagram?
5.	Which force plays the largest role in stellar formation and evolution?
	What property of the star determines its evolution $(e.g., lifetime)$?
6.	In a sentence, how does a star form?
7.	List three elements produced by nuclear fusion in stars.
8.	What is the approximate chemical composition by mass of young (recently-formed) stars?