## ISP 205 Review Questions, Week 14

This is not required homework. It will not be graded. Answers will be supplied next week.

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- 1. What do we actually measure when we say that there is Cosmic Microwave Background (CMB) radiation?
- 2. How was the CMB produced?
- 3. What does it tell us about the overall history of the universe?
- 4. What do we mean by the term "Dark Matter?
- 5. What are the three independent techniques, described in class, by which we detect the existence of Dark Matter?
- 6. What fraction of all matter is in the form of Dark Matter?
- 7. On the largest observed scale, what is the general distribution of matter in space? Is it just a uniform distribution, or does it have some particular structure to it? If the latter, what type of structure?
- 8. What is meant by "top-down" structure formation, and what is meant by "bottom-up" structure formation? Which seems to be the prevalent case in the actual universe?
- 9. What is a quasar?
- 10. What do quasars have to do with galaxies?
- 11. How do we know that the center of our own Milky Way galaxy contains a black hole with over a million solar masses of material inside it?