Study Guide for Capers’ Marine Bio Exam 1

* Review all chapters and PowerPoints
* Use this guide as a “guide” to your studying. Study first, and then see if you can answer these questions.
* What is marine biology the study of?
* What is oceanography the study of?
* Know the steps of the scientific method.
* What is a theory in biology? An example is the theory of evolution and cell theory.
* Can a hypothesis be proven true?
* What are plankton? What are phytoplankton? What are nekton?
* What is homeostasis?
* What is the ultimate source of energy for the planet?
* What is photosynthesis?
* What are autotrophs? What are heterotrophs? What are primary producers? What are herbivores, omnivores, carnivores? How much energy is transferred from one trophic level to the next?
* What is the study of ecology?
* What are biotic factors? Abiotic factors?
* What is symbiosis? What are the 3 types of symbiosis (mutualism, commensalism, and parasitism)?
* What is the photic zone? A photic zone? Benthic zone? Pelagic zone?
* What % of earth is covered by oceans?
* What are the 4 macromolecules? What are their main functions? (i.e – carbs are for energy storage and structure)
* Remember the cell is the basic unit for life
* What is evolution? What is natural selection?
* What are viruses? What are viruses that infect bacteria called?
* What are the 3 Domains of Life?
* Remember that Archaeans and Bacteria are prokaryotic
  + What is prokaryotic?
* Remember that cyanobacteria are photosynthetic bacteria and do majority of photosynthesis as far as phytoplankton are concerned.
* Remember that fungi are decomposers. Do fungi have cell walls? Are fungi autotrophic or heterotrophic?
* Review the different protist plankton groups we talked about.