OCB 3017

Exam 2 Study Guide

* Review all Powerpoints and handouts (refer to the book when necessary)
* What are the 3 zones in Florida?
* What is fauna? Flora?
* What 3 different groups of organisms form reefs formed here in Florida?
* Are phytoplankton microscopic or macroscopic algae? What about seaweed?
* What types of mangroves are found here?
* What are the 3 Domains of Life?
* Know the groups of organisms and examples listed on the organism classification list (and are described in the Marine Life Powerpoint)
* What is the largest group of organisms on the planet?
* What is the largest group of animals?
* What group of animals have no true tissues?
* What is radial symmetry? What 2 groups are radially symmetrical and have 2 embryonic tissues?
* What is the difference developmentally between protostomes and deuterostomes?
* Distinguish between plankton, nekton and benthos
* Be able to describe adaptations organisms have to live in the ocean – buoyancy, camouflage, streamlining, dealing with osmotic pressure, temperature
* Be able to label fins on a fish
* What is the 1st law of Thermodynamics? Review how the energy from the sun is going to be transformed through the processes of photosynthesis and cellular respiration, eventually some of that energy from the sun will be harnessed in the bonds of an ATP molecule that is the energy currency for cells. However, with each transformation, some of the energy is lost as unusable energy
* What is OIL RIG?
* Majority of ocean life is located in the photic zone and along coastal areas. Also, what is more productive – tropical ocean or polar ocean?
* Be able to write out the chemical formula for photosynthesis and cellular respiration
* You will have to answer questions (possibly fill in the blank) on what is going on at the different steps of photosynthesis and cellular respiration. Go over the Prezis and descriptions that I gave to you.
* Be able to discuss fisheries management