Dr. Morris’ Extra Credit Assignment (20 pts)

Cabrillo Marine Aquarium
3720 Stephen M. White Drive, San Pedro, CA 90731
(310) 548–7562 (open until 5:00pm, closed Mondays)

DIRECTIONS: You MUST write your answers on THIS sheet of paper and get an employee to stamp it once it has been completed to get credit. A brochure is NOT acceptable proof of attendance. If you forget to have this assignment stamped, you MUST return to the aquarium to obtain a stamp. There are no exceptions. There is no need to retype this assignment, as long as your writing is mostly legible. This assignment MUST be in my hands by Thursday afternoon before 5:00 pm of the FINAL WEEK of instruction.

This portion is worth 15 points

o Give the names of five common tidepool animals.

o How do predatory seastars capture and ingest their prey?

o What is the feeding structure in the mouth of a sea urchin called (it has a circle of 5 sharp white teeth)?

o How are mussels able to remain attached to an intertidal area with large crashing waves?

o Describe the relationship sea otters have with kelp beds.

o How fast is giant kelp capable of growing?

o Why are oil spills so harmful to seabirds and sea otters?

o What is “beach wrack” and why is it important?

o How do moon jellies defend themselves?

o Find the football fish (angler fish). What is the purpose of the large appendage above its head?

o About how many teeth do great white sharks have at any given time?

o Sharkskin has unique microstructures covering its surface. These structures are called:

o Name one California pinniped.

o How long is the annual grey whale migration (round trip)?
What percentage of fat occurs in the milk that baby grey whales drink and about how much weight can the babies gain in a day?

What do sperm whales eat?

What is a “quadrat” and what is its purpose?

Find a seafood watch card or download the free “Seafood Watch Guide app” to your smart phone. Look up Atlantic Salmon, net pen raised in British Columbia, Canada. Where does it rank on dinner choices for a healthy ocean (green, yellow, or red)?

Name three common items that contain algae products. What do these products do?

What shape is a horn shark egg case? Why does it look this way? (Look at the baby sharks in the egg cases at the other side of the aquarium wall.)

Name a predatory invertebrate that drills for its food?

Name a plant that is critical for salt marsh diversity?

Name one algae and one zooplankton that is growing in the aquaculture lab. Why are they growing these?

Name an extinct marine creature.

Approximately what percent of the world’s oxygen is made in the ocean by phytoplankton and algae?

Why do opalescent squid make an excellent choice for medical researchers that are studying nerve cells?

What is spyhopping?

What is a major cause of death for leatherback turtles?

What is the adaptive benefit of the flattened shape of a hammerhead sharks odd-shaped head?

How deep can northern elephant seals dive?

*This portion is worth 5 points*

On a separate sheet of paper IN YOUR OWN WORDS, choose one thing that you found to be most interesting at the aquarium. Do additional research at home or ask an employee about your topic. Summarize your findings in one page typed OR handwritten. NOTE: COPYING AND PASTING FROM THE INTERNET IS PLAGIARISM – JUST DON’T DO IT.