

EEMB 106 Laboratory Quiz 1a

1. To what taxonomic Order does this specimen belong? List two important characteristics of that Order. (2 pts)
2. Lampreys and hagfish differ in some very distinct ways. Name the Family each of these fish belongs to, and list two (2) characteristics for each class that distinguish the two Families from each other. (3 pts)
3. What type of caudal fin does this fish have? Describe the placement of the pelvic fins in relation to the pectoral fins, and what does this tell you about the evolutionary position of the fish? (3 pts)
4. What is the mouth position of this fish and what does this fish eat? (2 pts)
5. Name the shape of the body of these two fishes (use technical terms) and say where in the water column they hang out. (2 pts)

6. The primary organ used by both elasmobranches and teleost fishes for osmoregulation is the kidney. What else do each of these groups of fishes use for osmoregulation that is different from the other group? (2 pts)

7. The ampullae of Lorenzini and the lateral line system are used by elasmobranches to detect objects in their environment. These two systems detect different types of signals. What type of signal does each system detect? (2 pts)

8. What are the two differences between a fin spine and a fin ray? (2 pts)

9. What organ do elasmobranches and teleosts use for buoyancy? What else are these organs used for? (2 pts)