

Ch. 24**Fish question set**

1. Provide a brief description of the fishes citing characteristics that would distinguish them from all other animals. P.499
2. Compare a lamprey and a hagfish. P.502-504
3. Describe the life cycle of a sea lamprey.p.504
4. What characteristics distinguish hagfishes and lamprey from other fishes? P.501
5. In what ways are sharks well equipped for a predatory lifestyle? p.507
6. The lateral line system has been described as a "distant touch" system for sharks. What function does the lateral line system serve? Where are, the receptors located? p.507
7. What are the Ampulla of Lorenzini? Where are they located? p.507
8. Explain what is meant by the following modes of reproduction: oviparous, ovoviviparous, and viviparous.p.507-508
9. When looking at types of caudal fins among fishes what is the difference between a heterocercal and a homocercal fin? Who has each? Draw a picture of each.p.506,512
10. What are the "W" shaped zigzagged muscles in the fish? p.514-515
11. Explain the locomotion of fish (mucus, movement, etc.).514-515
12. Sharks and bony fishes approach or achieve neutral buoyancy in different ways. Describe the methods of buoyancy for each group.515-516
13. Why must a teleost fish adjust the gas volume in its swim bladder when it swims upward or downward? How does it adjust the volume?515-516
14. Does a tuna have a swim bladder? p.515
15. Draw, label, and describe the function of the following in a fish: gill arch, gill raker, and gill filaments.p.517
16. What is meant by "countercurrent flow" as it applies to fish gills? p.516-517
17. How do Weberian ossicles increase a fish's sensitivity to sounds? p.516
18. How do freshwater fish deal with osmotic regulation? What does it mean to be a hyperosmotic regulator? p.518
19. How do marine fish deal with osmotic regulation? What does it mean to be a hypoosmotic regulator? p.519
20. Give characteristics and examples of each of the following classes of fish: Myxini, Petromyzontida, Chondrichthyes, Actinopterygii, and Sarcopterygii.p.524