

STUDY QUESTIONS

1. What is an ornithologist?
2. What are two characteristics of the organisms of Aves that no other species on earth has?
3. In the paired structures below, circle the structure that is larger than the other:
Vane or Barb Rachis or Afterfeather Barb or Barbule Quill or Keratin
4. What are air sacs and why are they important to birds? How do air sacs function?
5. True or False? Birds, reptiles and some mammals lay amniotic eggs.
6. What mechanisms do birds use to find their way during migration?
7. True or False? Birds show a high degree of cephalization with a large cerebellum.
8. What is a keel?
9. List at least two bird features that make them light.
10. What is the main difference between the organisms of Monotremata, Marsupialia, and Placentalia?
11. True or False? All mammals have a four-chambered heart with a two-loop circulatory system.
12. True or False? Some mammals do not have a vertebral column but most do.
13. True or False? All mammals feed their young through mammary glands.
14. True or False? Most mammals have a single, lower jaw bone called a mandible, but not all.
15. True or False? Aquatic mammals use gills to exchange gasses.
16. True or False? The tails of aquatic mammals contain bones for the muscles to attach.
17. Why does the fact that the fossils of virtually all species look the same in the past as they do today (meaning that sharks have always looked like sharks, alligators like alligators and birds like birds) present a problem for the evolution model?
18. True or False? Objective interpretation of the fossil record, with organisms appearing fully formed and looking like the same kind of organisms today, seems to be more consistent with the creation model than the evolution model.
19. What is echolocation? What mammalian orders are capable of echolocation?
20. What is the area of the brain that has expanded the most in mammals as compared to other species? What is the function of this area of the brain?
21. What is an ungulate?
22. True or False? All mammals are viviparous.
23. True or False? Human organ systems function significantly different than those of other mammals.