

**Who am I? Organismal diversity: Key characteristics**

Due Monday, 9 Oct 2019

Write in the answers to the questions below by naming the organisms based on their given characteristics. Correct classification is based on that found in our textbook. **35 points.**

1. I have membrane-bound organelles and do not contain circular chromosomes. What is my **domain**? (Chp 27) \_\_\_\_\_
2. I do not have a membrane-bound nucleus, but I sometimes can grow at temperatures above 100°C. What is my **domain**? (Chp 27) \_\_\_\_\_
3. I have a two-part body wall containing silicon dioxide that readily makes fossils. What kind of protist am I? (Chp 28) \_\_\_\_\_
4. I do not have a vascular system, and my sporophyte is long, tapering, and does not have a seta. What **phylum** am I? (Chp 29) \_\_\_\_\_
5. I represent the most diverse group of seedless, vascular plants. What is my **phylum**? (Chp 29) \_\_\_\_\_
6. I have a naked seed. I belong to the most endangered phylum of plants in the world, with ¾ of my species facing extinction. What is my **phylum**? (Chp 30) \_\_\_\_\_
7. My cell wall has chitin. What is my **kingdom**? (Chp 31) \_\_\_\_\_
8. Some of my species form mycorrhizae. What is my **phylum**? (Chp 31) \_\_\_\_\_
9. I have choanocytes to help me filter feed. What is my **phylum**? (Chp 33) \_\_\_\_\_
10. I have “combs” of cilia to help me move through the oceans. What is my **phylum**? (Chp 33) \_\_\_\_\_
11. I use cilia to eat and have many species who are entirely asexual—only females have ever been found for the 100 million years I have existed. What is my **phylum**? (Chp 33) \_\_\_\_\_
12. I have a radula and a foot. What is my **phylum**? (Chp 33) \_\_\_\_\_
13. I have chitin in my exoskeleton and have jointed legs. What is my **phylum**? (Chapter 33) \_\_\_\_\_
14. I have only one pair of wings. What **order** of insect am I? (Chp 33) \_\_\_\_\_
15. I have tube feet. What is my **phylum**? (Chp 33) \_\_\_\_\_
16. I have a head, a notochord, and love to make slime, but lack a jaw. What is my **class** (the book shows Classes in the little, repeated, gray cladograms. This hint will also help for the next two questions.)? (Chp 34) \_\_\_\_\_
17. I have a skeleton with bony rays and represent the most species of vertebrates by far. What is my **class**? (Chp 34) \_\_\_\_\_
18. I have an amniotic egg, a diapsid skull, and scales. What is my **class**? (Chp 34) \_\_\_\_\_
19. I have an amniotic egg, a synapsid skull, and lay eggs. What is my **order**? (Chp 34) \_\_\_\_\_
20. I have an amniotic egg, a synapsid skull, and opposable thumbs. What is my **order**? (Chp 34) \_\_\_\_\_