Who am I? Organismal diversity: Key characteristics

Due Monday, 9 Oct 2017

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 do not have membrane-bound organelles and my cell walls have peptidoglycan. 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 test usually made of calcium carbonate that readily makes fossils and often have symbiotic algae living inside of me. What kind of protist am I? (Chp 28) _______________
4. I do not have a vascular system, but my dominant gametophyte is in the shape of a large mammalian organ. 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. My whole **phylum** now is only composed of one species. I stink when my seeds rot. What is my **phylum**? (Chp 30) __________________
7. My cell wall has chitin. What is my **kingdom**? (Chp 31) ___________________
8. I produce mushrooms. What is my **phylum**? (Chp 31) ___________________
9. I have choanocytes to help me filter feed. What is my **phylum**? (Chp 33) _______________
10. I have cnidocytes to help me avoid predation and to feed. 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 piercing-sucking mouthparts and partly leathery 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 labels it just as a clade, but it’s a class as shown repeatedly in the little cladogram. 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, hair, and lay eggs. What is my **order**? (Chp 34) _______________
20. I have an amniotic egg, a synapsid skull, hair, and opposable thumbs. What is my **order**? (Chp 34) _______________